CrossTalk

October 2024 *65 Years Of Service To Amateur Radio & Our Community* *Issue 65 : 10*

A 2024 Club Officers

President :	**Jonathan Pearce, WB2MNF**
Vice President :	**Ronald Block, NR2B**
Treasurer :	**John O'Connell, K2QA**
Recording Secretary :	**John Zaruba Jr, K2ZA**
Corresponding Secretary :	**Michael Resnick, N2WOQ**

Trustees - 4 Year Term

Carl Wittig, N2CRW	**(2021-2024)**
Charles Lanard, KD2EIB	**(2022-2025)**
Sheldon Parker, K2MEN	**(2023-2026)**
Len Rust, W2LJR	**(2024-2027)**

Directors - 3 Year Term

Jeffrey Garth, WB2ZBN	**(2022-2024)**	**James Wright, N2GXJ**	**(2023-2025)**
Frank Romeo, N3PUU	**(2022-2024)**	**Al Arrison, KB2AYU**	**(2024-2026)**
Chris Prioli, AD2CS	**(2023-2025)**	**Bill Price, NJ2S**	**(2024-2026)**

General Membership Meeting
Wednesday, October 2, 2024 @ 1900 Hours
In-Person & ZOOM : 943 0211 9674, 843147

Tech Saturday Forum
Saturday, October 5, 2024 @ 0900 Hours
W2MMD Clubhouse

GCARC TechNet ZOOM Forum
Every Monday @ 1930 Hours
ZOOM Meeting ID : 933 9943 3123, 800835

License Testing Session
Thursday, October 10, 2024 @ 1900 Hours
W2MMD Clubhouse

Board of Directors Meeting
Wednesday, October 16, 2024 @ 1900 Hours
W2MMD Clubhouse

Dinner @ The W2MMD Clubhouse
Wednesday, October 23, 2024 @ 1800 Hours

Tuesday AfterNoon 2M Net @ 1200 Hours
Thursday Night 2M Net @ 2000 Hours

Tuesday & Thursday 10 Meter Net @ 1930 Hours
28.465 MHz or 28.475 MHz

Monday & Thursday Night 40M Net @ 1930 Hours
7.225 MHz (+/- 5 or 10 kHz)

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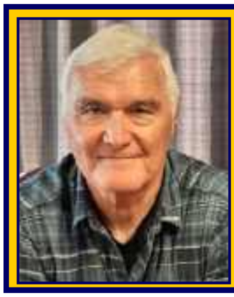


President's Letter
Jon Pearce, WB2MNF

October 2024

September blessed us with fantastic weather, creating the perfect backdrop for a flurry of activities at the Clubhouse. The highlight of the month was undoubtedly the Hamfest, which saw outstanding attendance and enthusiasm, but we also had great attendance at the Tech Saturday Forum covering Software Defined Radios, as well as many ad hoc activities occurring each weekend. Activities in October will include the General Membership Meeting on October 2nd, Tech Saturday Forum on October 5th and other events.

• Hamfest

As many of us know, last year's hamfest was one of the worst in the Club's history. Rain was predicted well in advance, and it poured throughout the entire event, significantly impacting the financial outcome. This year's event, however, was a striking contrast, with beautiful weather both predicted and occurring. Initial reports show record attendance and revenue, making this year's hamfest the best in the last decade by both metrics.

No hamfest is successful without volunteers, and this year's event was notable for the massive efforts of two individuals : **Sheldon Parker K2MEN**, who did the initial event planning and organization as he has for the past 10 years, and **Ron Block NR2B**, who took over on less than a week's notice when Sheldon had a medical accident. Ron quickly assembled a group of volunteers to handle the setup and operation of the hamfest, managing the growing number of vendors and attendees as they poured in through the gates. Numerous other volunteers, including the gate and parking lot staff, announcers, speakers, overnight security team, and Clubhouse *"welcomers"*, came together to create an outstanding event.

I would also like to thank **Jeff Welch KD2AZI** who works tirelessly behind the scenes with our many sponsors to put together, every year, an excellent selection of door prizes.

Thanks to all who came, participated, volunteered, and provided support. The success of our hamfest is one of the many reasons our Club is viewed as one of the best.

• New Members

September was remarkable for the influx of new members, many of whom joined during the Hamfest or at the Clubhouse afterward. The board approved 12 new members, pushing our total membership to 244 - the highest in the Club's history. Many of these new members are eager to participate in Club activities, challenging us to keep things engaging. We aim to offer activities that cover all aspects of ham radio, so if you have a specific interest, please inform the Club leaders.

While all new members are important, one stood out for his achievements at a young age. Fifteen-year-old **Josiah Jarvis**, along with his eleven-year-old brother **Micah** and their mother, visited the Clubhouse after the Hamfest. During a tour in the VHF room, we initially thought Josiah was a typical school kid interested in technology and were surprised to learn he held a General Class amateur radio license!

President's Letter - Continued on page 3

President's Letter - Continued from page 2

This revelation expanded the tour to the HF room, where we showcased digital modes that piqued his interest. Micah expressed a desire to learn CW, so we connected him with **John Zaruba K2ZA**, who provided online resources for learning Morse Code. Josiah joined as a student member, and the board has offered associate membership to Micah. We hope both young men will find many rewarding activities as Club members.

• Woodruff Middle School STEM Project

The after-school STEM project at Woodruff Middle School began on Monday, September 23rd, with 16 students enrolled. Club member and middle school science teacher **Angela Metzger KE2DRJ** has collaborated with the Club team to prepare materials and curricula for this 10-week session. The program will cover topics such as balloon physics, radio basics, and data transmission, among others, as time permits.

To generate excitement early on, student teams will learn soldering in the second session and assemble WSPR tracker radios in the third week, with the goal of launching balloons soon after. Although Amateur Radio license training is not initially part of this Club activity, we hope several students will become interested in getting licensed, and we will develop a training program at that time.

• Balloon Project

As mentioned in several status emails and on the ***"Balloon Adventure"*** page of the W2MMD.org website, our balloon team - **Mike Thompson KG4JYA**, **Doug Dersch KD2VQA**, and myself - have launched a total of five balloons. We aimed for high altitude and long duration with three of these launches, but unfortunately, none have been successful so far.

Undeterred, we are continuing our efforts. We've restocked our supplies of solar panels, trackers, and balloons to keep pushing forward. We understand that success in these ventures often comes around the sixth launch, so we are hopeful that a combination of luck and skill will bring us success in the next month or so.

• Holiday Dinner

The amazing culinary team of **Frank N3PUU** and **Kathy Romeo** has agreed to recreate last year's successful holiday party meal! We are currently researching dates for the Pfeiffer Community Center and will announce them once finalized. To keep the project manageable, Frank and Kathy will reach out to individuals for help with food preparation and other tasks, so we are not calling for volunteers at this time. Last year's event was a tremendous success, featuring great food, conversation, and music, and we are confident this year's event will be just as wonderful.

• Moonbounce!

As mentioned last month, the Foundation has funded and ordered a 2.4-meter collapsible dish antenna for **Earth-Moon-Earth (EME)** or "Moonbounce" communication, a fascinating and complex area of Amateur Radio. We hope the dish arrives in time for the EME contest later in October, but regardless we will use it at other times to test our ability to bounce radio signals off an object 250,000 miles away. We're tentatively planning the Tech Saturday Forum event in October to cover the technical aspects of EME, so plan to attend that event on October 5th if you're interested.

73 de Jon WB2MNF

Welcome New Club Members :

Joseph Albanese, KE2DYX, a Technician Class from Sewell, NJ.
Scott Dantis, AA2SD, an Amateur Extra Class from Berlin, NJ.
Michael Dornisch, KD2IFY, a Technician Class from Blackwood, NJ.
Matthew Duffield, KE2ECE, a Technician Class from Woodbury, NJ.
James Griggs, KE2COX, a Technician Class from Pine Hill, NJ.
Josiah Jarvis, KE2BRD, a General Class from Williamstown, NJ.
Paul Johnston, KC3VTI, a Technician Class from Smyrna, DE.
Conor McCaffrey, KD2KJX, a Technician Class from Pennsauken, NJ.
Dennis McManus, W3IMA, an Amateur Extra Class from Pennsville, NJ.
Craig Metzger, an Associate Member from Vineland, NJ.
Paul Pasternak, N3FTO, an Amateur Extra Class from Glassboro, NJ.
Rev. Fr. Jacek Stefanski, N2FCH, an Amateur Extra Class from Cherry Hill, NJ and Wigry, Poland.

We are glad to have you as members of the Club and hope to see you regularly at Club meetings, events, and activities. Hope to see you at the October 2nd General Membership Meeting, either in-person or on ZOOM, the October 5th Tech Saturday Forum, the Monday Night GCARC TechNet ZOOM Forum, and the Dinner @ The W2MMD Clubhouse on October 23rd.

We also hope to ***"SEE"*** you on the ***"AIR"*** on the following nets :

- Sunday Night Skywarn 2 Meter Net @ 1930 Hours.
- Sunday Night ARES 2 Meter Net @ 2000 Hours.
- Tuesday AfterNoon 2 Meter Net @ 1200 Hours.
- Tuesday & Thursday Night 10 Meter Rag Chew Nets @ 1930 Hours on 28.465 or 28.475 MHz.
- Monday & Thursday Night 40 Meter Nets on 7.225 MHz (+/- 5 or 10 kHz) @ 1930 Hours.
- Thursday Night Rag Chew 2 Meter Net @ 2000 Hours.

All 2 Meter nets are on our 147.180 MHz (PL 131.8) repeater or on EchoLink W2MMD-R.

General Membership Meeting

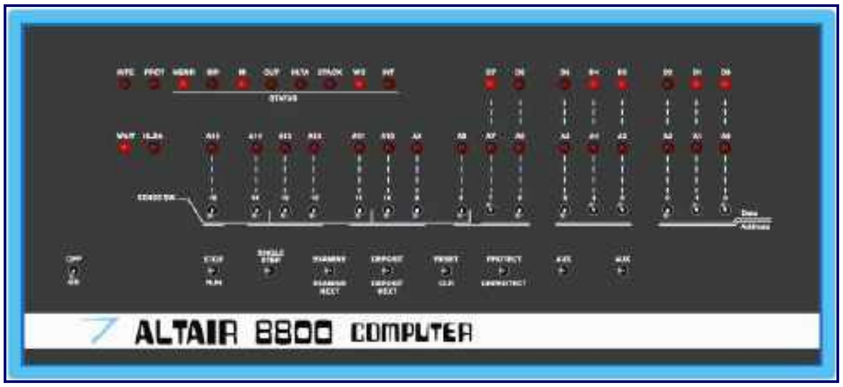
Wednesday, October 2, 2024 @ 1900 Hours

Pfeiffer Community Center

Simulcast Live Via ZOOM : Meeting ID : 943 0211 9674; Passcode : 843147
Join ZOOM Meeting Link : https://bit.ly/44P4HCU

Go to : www.w2mmd.org to download the ZOOM log-on instructions PDF

Altair 8800 : The computer that changed the world and a story of unconsummated love.



This month, **Bob Nelson, K2QPN**, will start our historical travelogue with a few definitions just to make sure that we are all on the same page, and then dive into the 1970s computer scene which eventually developed the microprocessor. For those of us who were around at that time, we witnessed (and more than likely ignored) the launch and subsequent revolution of the home computer. Its initial primitive and cumbersome capabilities (programmed in machine language) were extremely limited but stimulated the development of an operating system (Microsoft) and eventually higher-level programming languages for application development. Today we all know, love, and use the various applications necessary to support our modern lifestyle.

Bob will tell this unconsummated love story at our October 2nd General Membership Meeting. It should be a remarkable show-and-tell. Don't miss it!

Not every hero wears a cape.
PLAN and PRACTICE your ESCAPE!™
firepreventionweek.org
SPARKY

October 6 - 12, 2024

Supporting The Foundation Through Qualified Charitable Donations

By Jon Pearce, WB2MNF

As a Club member, you have the opportunity to make contributions to the Gloucester County Amateur Radio Foundation, a 501(c)(3) public charity, using Qualified Charitable Donations from your IRA. This option is available to those who have reached the age at which they're required to take Required Minimum Distributions from their IRAs. Making such a donation allows you to direct a designated amount of funds from your IRA to the Foundation avoiding any tax liability on the IRA withdrawal, and the donations also count as part of the RMD.

To make a donation, contact your IRA administrator and request that they make a direct transfer of funds to the foundation.

For more information contact Club and Foundation Treasurer John O'Connell K2QA (treasurer@w2mmd.org).

Gloucester County Amateur Radio Club
YouTube Channel
https://www.youtube.com/@W2MMD

GCARC TechNet ZOOM Forum

GCARC TechNet ZOOM Forum is scheduled to be available every Monday Night until December 30, 2024.

There will not necessarily be a topic scheduled every Monday Night, but the opportunity is available to schedule succeeding topics of interest on consecutive Monday Nights.

Every Monday @ 1930 Hours

Forum Topic : See e-mail and website for more information

Go to : https://gloucestercountyarc.weebly.com/gcarc-technet.html
for TechNet Information Resources and ZOOM Instructions

Meeting ID : 933 9943 3123 ; Passcode : 800835
Join ZOOM Meeting Link : https://bit.ly/3K8bWwj

Tech Saturday Forum

October 5, 2024 @ 0900 Hours

W2MMD Clubhouse

Forum Topic : EME (Earth-Moon-Earth) Operating

Q & A Session About All Things Ham Radio and Socializing!

The HF Station Will Be Available For Local Operation!

Tech Saturday sessions are held at the W2MMD Clubhouse on the first Saturday of the month following the Wednesday Night General Membership Meeting and are designed to be hands-on collaborative events focused on using the Clubhouse resources to demonstrate various aspects of Amateur Radio and related technical areas. Previous sessions have covered USB software-defined radios, Raspberry Pi and Arduino devices, satellite operations and other similar topics.

We would like to invite all of our new members as well as our veteran members to our Tech Saturday Forums to help answer any questions and discuss any and all issues the new members have come across as they progress through the ***Amateur Radio Experience.***

The Discussion Theme is a QSO starting point - a way to initiate a conversation. All Tech Saturdays are an open QSO of all subjects of Amateur Radio interest. All questions are welcome as well as a venue for hams to show off their latest ham radio projects or gadgets. Have a problem programming that HT, we can help! Not sure what radio or antenna to buy, we can help!

All Club Members who would like Clubhouse access to use its radio equipment would have to have some brief “Elmering” on the Clubhouse rules, such as using the alarm system, the A/C and heaters, the antenna system, and the radio equipment. The Club’s HF station is reserved for local use on Tech Saturday.

All are welcome - Hams and Non-Hams - Club Members and Non-Club Members.

GCARC Monthly VE Exam Testing Summary - September 2024

Gary Reed, N2QEE, reports, the monthly VE report consists of two sessions.

The first was the VE session for the GCARC Hamfest on September 8th which had two candidates for upgrades. The successful candidate was :

- **Paul Johnston KC3VTI of Smyrna, DE who upgraded to General.**

His upgrade appeared on the FCC ULS on Monday the 9th.

The participating VE's were :

- **Mike N2WOQ**
- **Rich W2RHS**
- **Mike N2MHO**
- **Jeff WB2ZBN**
- **Alex K3CIM**
- **Jerry K2EAB**
- **Mike KG4JYA**
- **Earl KC2NCH**
- **Gary N2QEE**

The regular monthly VE session was held on September 12th with three candidates attending. Two were new licenses and one was upgrade to Extra.

The Technicians were :

- **Zachary Grinberg KC3ZTB Garnet Valley, PA**
- **Matthew Duffield KE2ECE of Woodbury.**

The upgrade to Amateur Extra was Father Jacek Stefanski N2FCH of Cherry Hill.

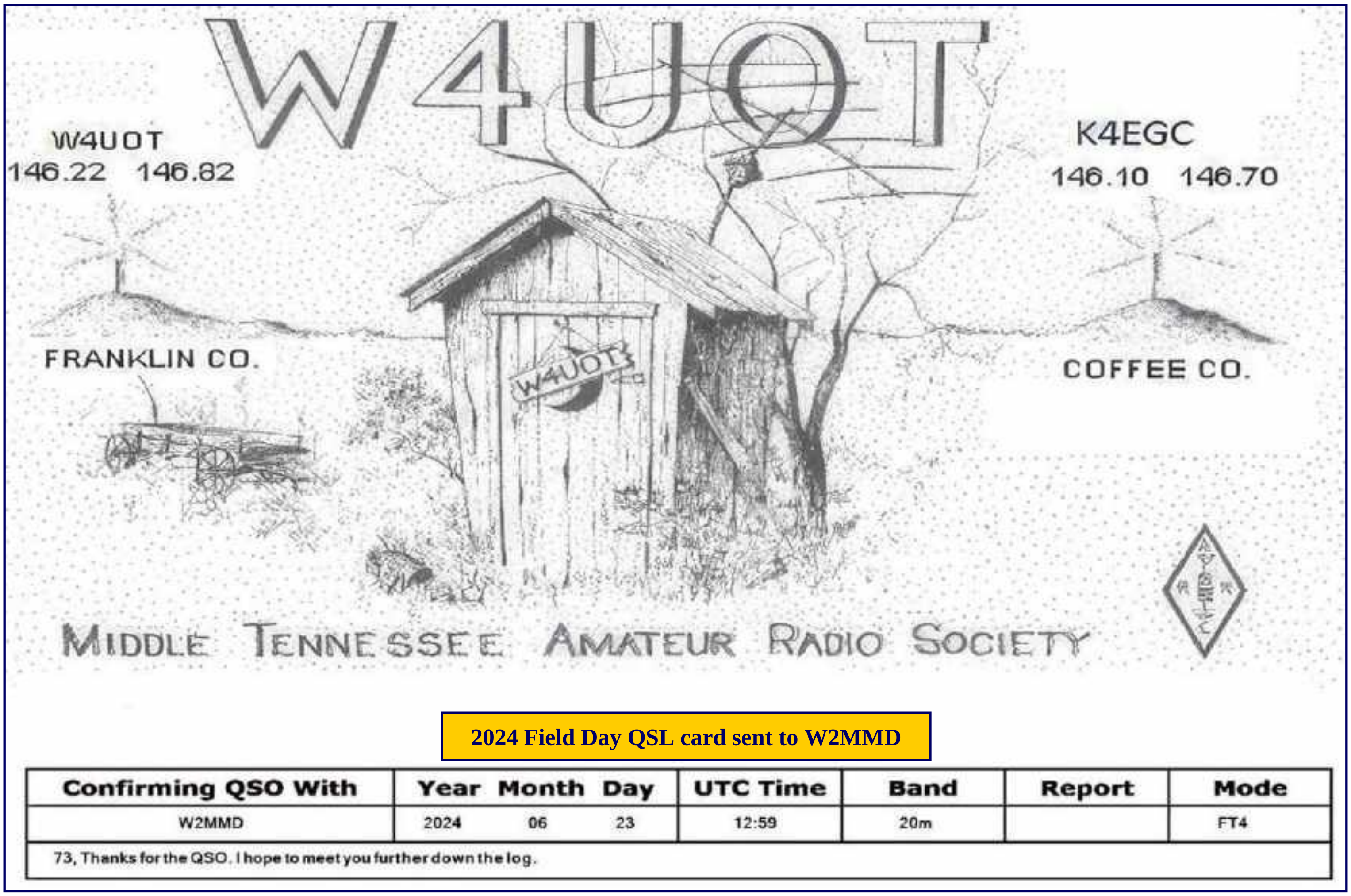
The upgrade appeared Friday morning on the FCC ULS and the Technician licenses on Saturday the 14th.

The participating VE's were :

- **Mike N2WOQ**
- **Earl KC2NCH**
- **Lee N2LAM**
- **Chris AD2CS**
- **Rich W2RHS**
- **Mike N2MHO**
- **Marylu K3MLC**
- **Mike KG4JYA**
- **Greg W5DO**
- **Court KD2SPJ**
- **Gary N2QEE**

A BIG thank you to the participating VE's for both sessions.

The Club's next VE session will be October 10th at the W2MMD Clubhouse at 7 PM.



W4UOT

W4UOT
146.22 146.82

K4EGC
146.10 146.70

FRANKLIN CO.

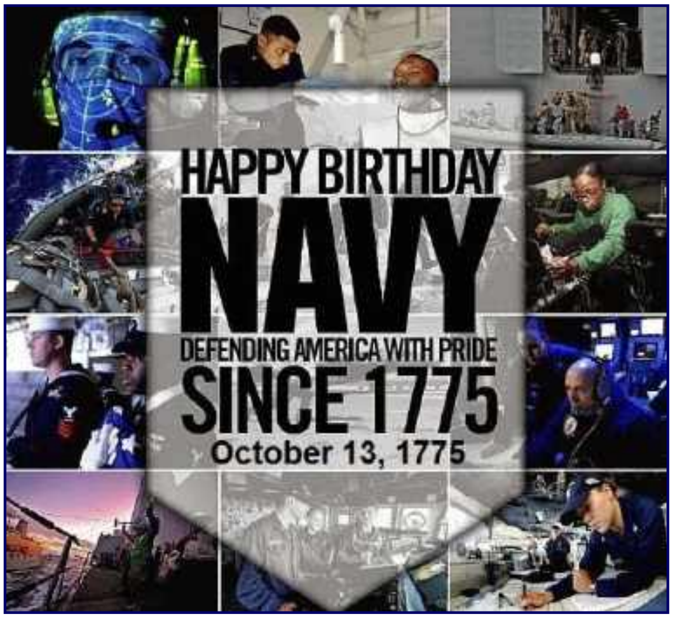
COFFEE CO.

MIDDLE TENNESSEE AMATEUR RADIO SOCIETY

2024 Field Day QSL card sent to W2MMD

Confirming QSO With	Year	Month	Day	UTC Time	Band	Report	Mode
W2MMD	2024	06	23	12:59	20m		FT4

73, Thanks for the QSO. I hope to meet you further down the log.



Need a ride to a Club meeting, event, or activity?

Just send a message to the Club's e-mail reflector asking if a member can pick you up

GCARC <*at*> MAILMAN <*dot*> QTH <*dot*> NET

All Club members have access to this FREE e-mail service

DAs and DITs

>> A Big GCARC Get Well to **Sheldon Parker, K2MEN**, recovering from a recent stroke.
Don't Worry Sheldon, We have your 6!

NTS Resources

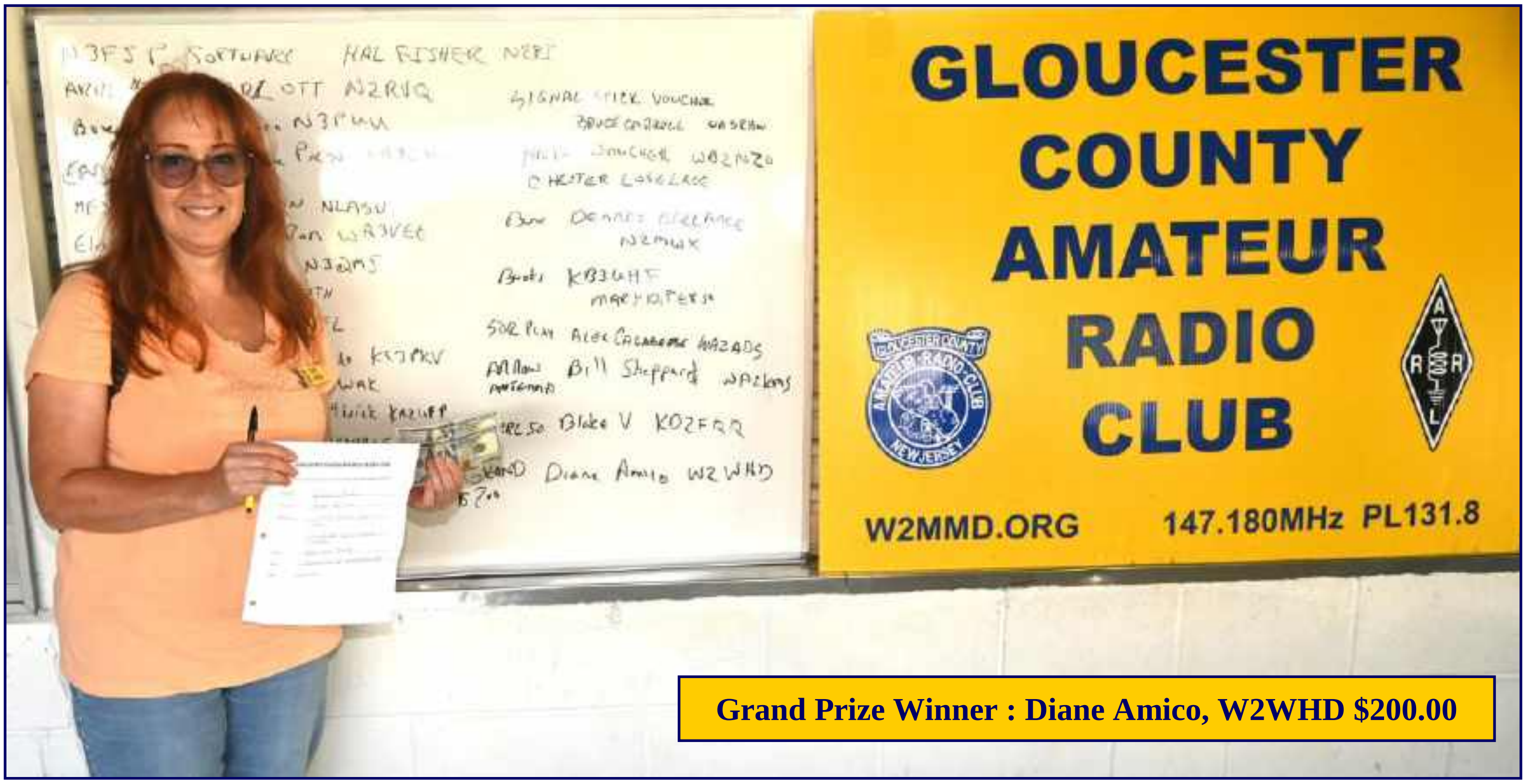
The National Traffic System® (NTS) is a network of Amateur Radio operators who move information during disasters and other emergencies. General messages offering well wishes also move through the NTS to help test the system and to help amateur radio operators build traffic handling skills. While the NTS is primarily set up to serve the United States and Canada, it is possible to move traffic internationally through the NTS through various local, regional, area, and international network connections.

- **NTS 2.0 : https://nts2.arrl.org**
- **NTS Manual : https://www.arrl.org/nts-manual**
- **NTS Methods and Practices Guidelines Table of Contents : https://www.arrl.org/table-of-contents-nts-methods-and-practices-guidelines**
- **Handling Instructions : https://nts2.arrl.org/hx-handling-instructions**
- **Numbered Texts : https://nts2.arrl.org/numbered-texts**
- **Form Encoding Rules for Form : https://nts2.arrl.org/form-encoding-rules-for-forms**

Gloucester County Amateur Radio Club Elmers

We are still looking for some more Club Elmers. If you would to add your name to the Elmer's List, send your specialty to w2mmdgcarc@gmail.com. Here is what we have so far :

- **Tony Starr, K3TS : Antenna Construction; Contesting; CW Help and Training**
- **Ken Bozarth, KN2U : Antennas**
- **Jeff Welsh, KD2AZI : Boat Anchor Repair & Operation; Raspberry Pi; Arduino; Python; POTA; Mobile Installation & Operating**
- **Karl Frank, W2KBF : Digital Messaging (FLDIGI, WinLink)**
- **Lenny Rust, W2LJR : DMR Radios & Programming**
- **Ron Block, NR2B : Lightning protection & grounding**
- **Chris Prioli, AD2CS : Kit Building; Antenna Building; Radio Programming; PC and Electronic Troubleshooting; ham radio licensing & studying**
- **John Zaruba Jr, K2ZA : Yaesu System Fusion Radio Programming, POTA, SOTA**
- **Jerry Barnish, K2EAB : Radio Astronomy**
- **Mike Thompson, KG4JYA : Radio Astronomy; VARA (HF and FM); WinLink**
- **Steve Farney, W2SEF : WSJT-X; FT-8; LoTW; TQSL; Grid Square**
- **Carl Wittig, N2CRW : Audacity® Audio Editor**
- **Gary Mirkin, WA3SVW : FLDIGI; MMSSTV**
- **Jon Pearce, WB2MNF : Satellite Communications**
- **Frank Romeo, N3PUU : Toilet Installer; Jack-Of-All Trades - Master Of None**
- **John Hill, W2HUV : Local & Remote W2MMD HF Station Operation, Training & Support**
- **Dave Sheppard, W2PAX : National Traffic System**



Grand Prize Winner : Diane Amico, W2WHD $200.00

Visiting Club Tables

KB3IFH QSL Cards : Door Prize Donator & Hamfest Vendor

Regional (Atlantic & Hudson Divisions) Hamfests & Events

October 1-5, 2024 : Antique Wireless Association, AWA Annual Conference, RIT Inn & Conference Center, 5257 West Henrietta Road, Henrietta, NY. **www.antiquewireless.org**

October 5, 2024 : Red Rose Repeater Association Hamfest, Garden Spot Fire & Rescue, 339 East Main Street, New Holland, PA. **www.w3rrr.org**

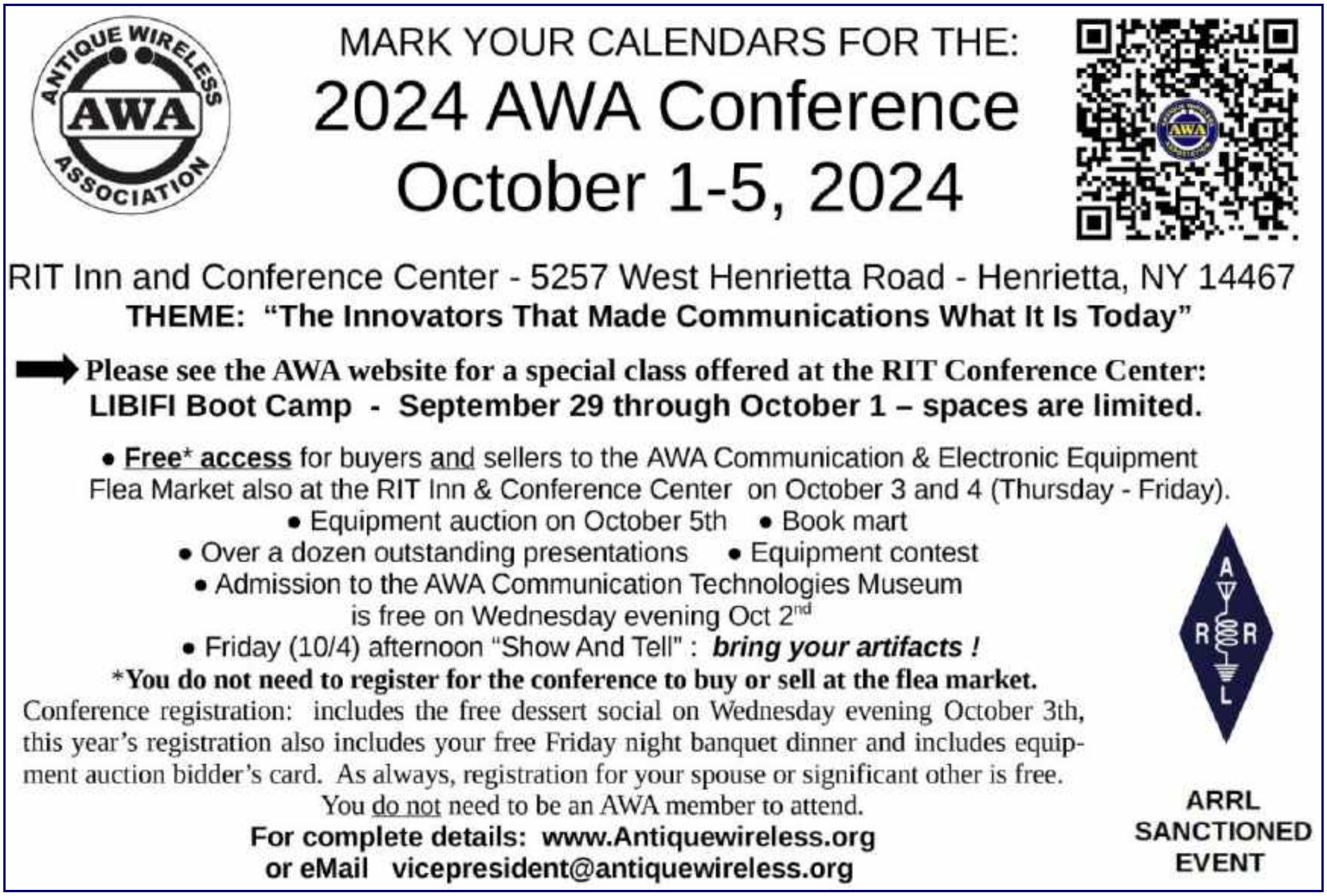
October 6, 2024 : Columbia Amateur Radio Association, CARA Fest 2024, Howard County Fairgrounds, 2210 Fairgrounds Road, West Friendship, MD. **www.columbiaara.org**

October 20, 2024 : RF Hill Amateur Radio Club Hamfest 2.0, Upper County Campus of the Bucks County Community College, 1 Hillendale Road, Perkasie, PA. **www.rfhillarc.club**

GOLIATHON

Goliathon Obstacle Challenge
October 5, 2024
Gloucester County 4-H Fairgrounds

More information can be found at :
https://www.goliathon.com



ANTIQUE WIRELESS AWA ASSOCIATION

MARK YOUR CALENDARS FOR THE:

2024 AWA Conference
October 1-5, 2024

RIT Inn and Conference Center - 5257 West Henrietta Road - Henrietta, NY 14467

THEME: "The Innovators That Made Communications What It Is Today"

➡ **Please see the AWA website for a special class offered at the RIT Conference Center:**
LIBIFI Boot Camp - September 29 through October 1 – spaces are limited.

- Free* access for buyers and sellers to the AWA Communication & Electronic Equipment Flea Market also at the RIT Inn & Conference Center on October 3 and 4 (Thursday - Friday).
- Equipment auction on October 5th
- Book mart
- Over a dozen outstanding presentations
- Equipment contest
- Admission to the AWA Communication Technologies Museum is free on Wednesday evening Oct 2nd
- Friday (10/4) afternoon "Show And Tell" : *bring your artifacts !*

***You do not need to register for the conference to buy or sell at the flea market.**

Conference registration: includes the free dessert social on Wednesday evening October 3th, this year's registration also includes your free Friday night banquet dinner and includes equipment auction bidder's card. As always, registration for your spouse or significant other is free.

You do not need to be an AWA member to attend.

For complete details: www.Antiquewireless.org
or eMail vicepresident@antiquewireless.org

ARRL
SANCTIONED
EVENT

The Education Connection

By Chris Prioli, AD2CS - chris@ad2cs.com

www.ad2cs.com

October 2024

Well… it is now heading into October. By the time that you read this, the Session VIII classes of the Ham Exam Preparation series will be into their third or even fourth week, well on the way. However, it is the very basics of these class meetings that I would like to discuss today. As I write this, I am trying hard to understand the mind set of those individuals who make these classes so frustrating for me.

Consider this…a certain number of individuals enroll in the session, so I go ahead and run the class based upon that enrollment level. However, in reality, the class is operating with just a small fraction of the number who enrolled. Let's talk numbers…I had a total of seven enrollees, but now I am running a class basically for two individuals, one of whom is already licensed at the General level and simply wanted a refresher (and to support his son, who is a student in the class). A third student routinely arrives at least a half-hour late. One of the enrollees informed me via email that his work schedule changed, preventing him from attending. All of the others simply fail to show up.

When the end-result tabulations are made, these numbers do not look very good for the Club and for this program. On a personal level, it affects my reputation and credibility when I promote the program.

As a result of all of this, I have decided to make a plea directly to the membership for some help in fixing this problem. Please…if you are acquainted with any of the students in any of our license preparation classes, do your best to encourage those students to show up for class, to show up on time, and to put in the effort required to succeed in achieving the license or upgrade sought by enrolling in the class.

Succeeding requires commitment to the job at hand, not just a gentle involvement with the material being taught. Look at it all as if we were talking about the chicken and the pig as related to our classic American breakfast of bacon and eggs. The chicken is involved in the breakfast, but the pig? He is different. The pig is committed to that breakfast. I need for more of our class enrollees to be pigs and less to be chickens if these folks wish to succeed in their license efforts.

On another topic, I am looking for a count of individuals - Club members or not - who may be interested in signing up for a three-hour (with a break) familiarization class for the NanoVNA. This class would cover the basics of the device, different device types, calibration, and the various common measurements that can easily be made with a NanoVNA. The only requirement for the class is that each student must bring a NanoVNA as well as a notebook and writing tools. The class fee will be an even $15 to cover the materials provided by the Club for the session. Date and time will be announced once I have a good handle on the number of enrollees that will attend.

That's it for now… see you next month!

W2MMD

www.facebook.com/W2MMD

twitter.com/w2mmd_gcarc

Facebook

Tuesday AfterNoon Net @ 1200 Hours

Net Control Stations :
Steve Farney, W2SEF; Rich Subers, W2RHS,
Greg Ciraula, W5DO; & Jeff Garth, WB2ZBN

147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

Here is the schedule for the upcoming weeks

Greg Ciraula, W5DO : October 1, 2024
Steve Farney, W2SEF : October 8, 2024
Steve Farney, W2SEF : October 15, 2024
Rich Subers, W2RHS : October 22, 2024
Jeff Garth, WB2ZBN : October 29, 2024

Greg Ciraula, W5DO : November 5, 2024
Steve Farney, W2SEF : November 12, 2024
Steve Farney, W2SEF : November 19, 2024
Jeff Garth, WB2ZBN : November 26, 2024

Greg Ciraula, W5DO : December 3, 2024
Steve Farney, W2SEF : December 10, 2024
Rich Subers, W2RHS : December 17, 2024
Christmas Eve : December 24, 2024
New Year's Eve : December 31, 2024

If you would like to be a Net Control Station for this net, please contact Steve Farney, W2SEF

Thursday Night Rag Chew Net @ 2000 Hours

Net Control Stations :
Mary Delemarre, W2TDS; Gary Mirkin, WA3SVW;
Steve Farney, W2SEF; & Jeff Garth, WB2ZBN

147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

Here is the schedule for the upcoming weeks :

Jeff Garth, WB2ZBN : October 3, 2024
Mary Delemarre, W2TDS : October 10, 2024
Gary Mirkin, WA3SVW : October 17, 2024
Steve Farney, W2SEF : October 24, 2024
Jeff Garth, WB2ZBN : October 31, 2024

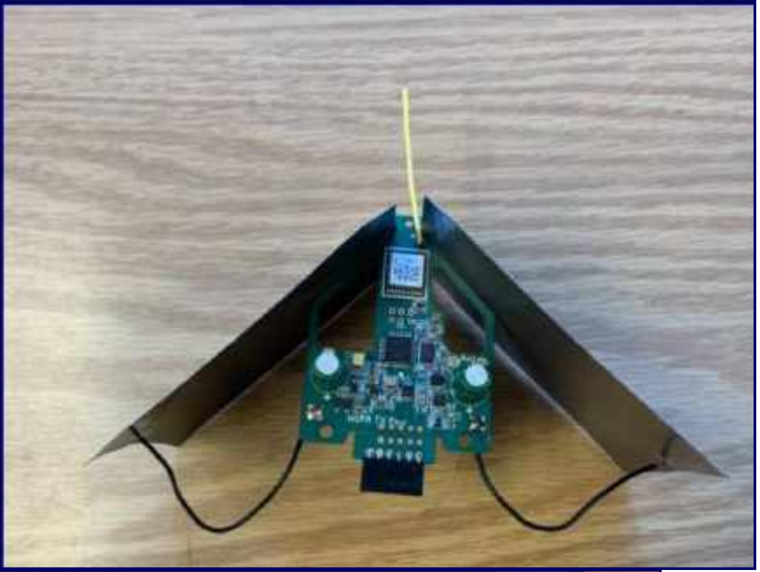
Steve Farney, W2SEF : November 7, 2024
Mary Delemarre, W2TDS : November 14, 2024
Gary Mirkin, WA3SVW : November 21, 2024
Happy Thanksgiving : November 28, 2024

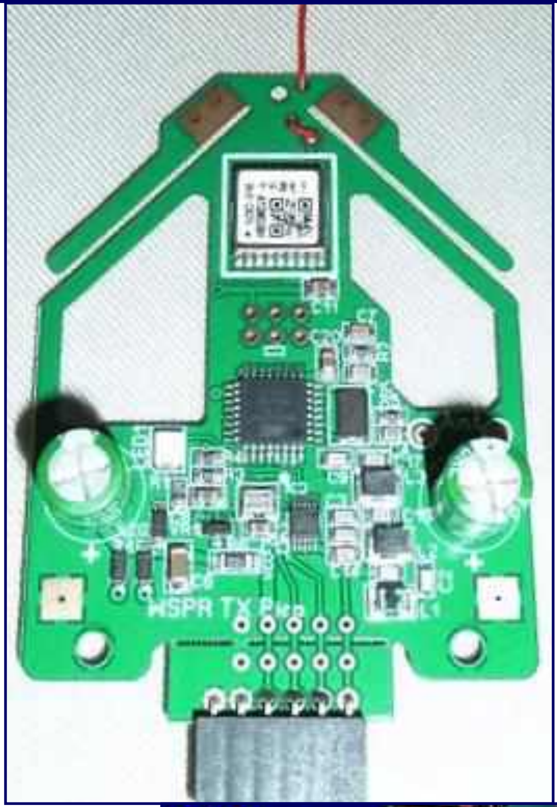
Jeff Garth, WB2ZBN : December 5, 2024
Mary Delemarre, W2TDS : December 12, 2024
Gary Mirkin, WA3SVW: December 19, 2024
Steve Farney, W2SEF : December 26, 2024

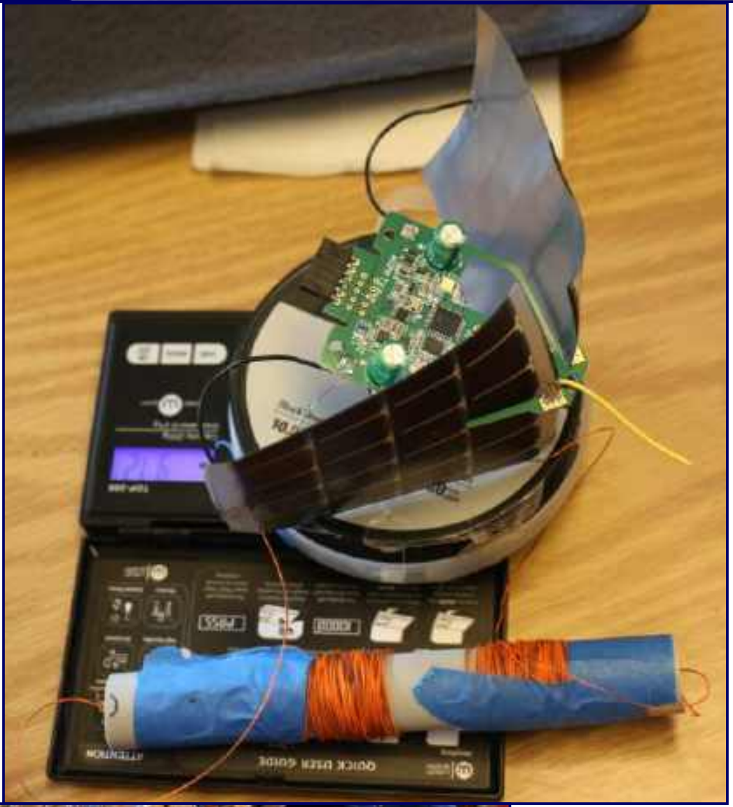
If you would like to be a Net Control Station for this net, please contact Jeff Garth, WB2ZBN

Balloon Launch 8/24

- ORBS 32" silver balloon
- **ZachTek Tracker** w/supercapacitors and charge-limiting diodes
- Two 5-volt solar cells
- Objective – long flight!







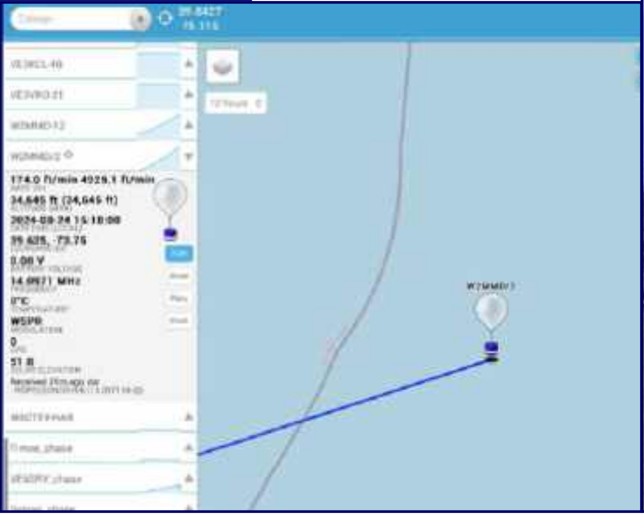
Inflation and Measuring Lift

Using a "helper" balloon to lift the antenna

Checking the transmitter for successful telemetry transmissions

Last Telemetry

- Lost telemetry when sun was too low
- Something failed



39.8427
75.116

174.0 ft/min 4029.1 ft/min
34,645 ft (24,645 ft)
2024-08-24 15:18:00
39.425, -73.75
0.00 V
14.0971 MHz
0°C
WSPR
0
51 ft
Received 25m ago via

Gloucester County Skywarn Net

The Gloucester County Skywarn Net is held every Sunday @ 1930 Hours on the 147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

All Are Welcome To Participate

Net Control Stations : Steve Bromhead KB2RTZ, Bob Keogh KD2NEC, Charlie Wahl, KC2STO, & Jeff Garth WB2ZBN

Gloucester County ARES Net

The Gloucester County ARES Net is held every Sunday @ 2000 Hours on the 147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

All are welcome to participate

Net Control Stations :
Steve Farney W2SEF, Bob Keogh KD2NEC, Karl Frank W2KBF,
Al Arrison KB2AYU, Gary Mirkin WA3SVW, & Todd Woodward KD2ESH

Todd Woodward KD2ESH: October 6, 2024
Al Arrison KB2AYU: October 13, 2024
Karl Frank W2KBF: October 20, 2024
Steve Farney W2SEF: October 27, 2024

Anyone who is interested in joining the Gloucester County ARES Team, is invited to contact Bob Keogh at KD2NEC @ QSL.NET

"Dinner @ The W2MMD Clubhouse"

Wednesday, October 23, 2024 @ 1800 Hours
W2MMD Clubhouse

ARRL Learning Center

https://learn.arrl.org

Discover how to make Amateur Radio your own.

Online courses from the ARRL Learning Center provide ARRL members with additional instruction and training for getting on the air, emergency communications, and electronics and technology

Current Website Updates : Go to this page to find out the latest changes & updates on our W2MMD Website
https://gloucestercountyarc.weebly.com/current-website-updates.html

At The Repair Bench…

A monthly column describing a recent repair bench event.

By Chris Prioli, AD2CS - chris@ad2cs.com - www.ad2cs.com

MFJ-407D Keyer - October 2024

Last month, I wrote about an Astron power supply unit that had come in for repair. The ham who owns the Astron brought an **MFJ-407D Electronic Keyer (Figure 1)** to me at the same time, with the complaint that the keyer had no keying output.

The customer suspected the output transistor, which did in fact turn out to have been in a failed condition. However, what the customer did not suspect is why the transistor had failed, nor why intermittent operation and power drop-outs mentioned at all. These two last conditions were conditions that I noted during test and repair operations. Of course, the unit would not be repaired until those problems were cured as well.

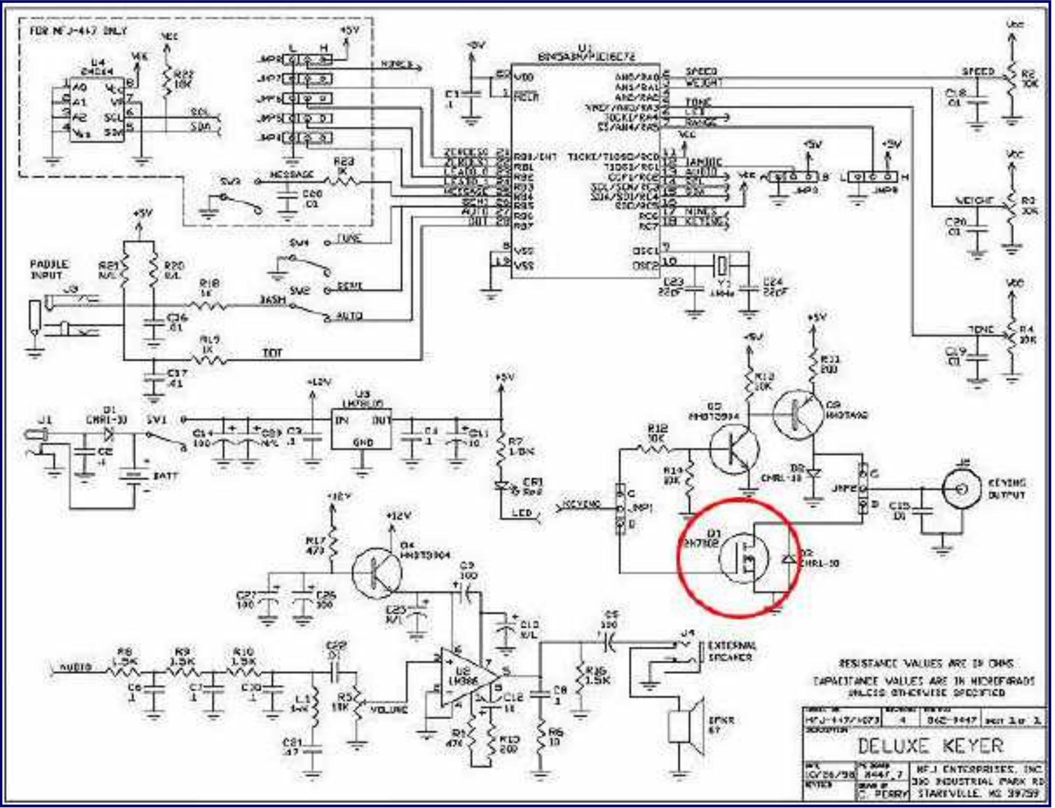


Figure 2 : MFJ-407D Schematic Diagram

Replacement of the failed output transistor, **Q1 in the schematic (Figure 2)**, an enhancement-mode MOSFET, was straight-forward. The transistor in question is a 2N7002 surface-mount device in an SOT-23-3 package. This transistor is one of the few components in the direct output path for the keyer. There is a selectable parallel path designed for use in grid-block or tube-type systems rather than in solid-state systems. The grid-block path has considerably more components, but they are all moot because this keyer was configured for use in the ***Direct*** mode of operation.

At The Repair Bench - Continued on page 19

At The Repair Bench - Continued from page 18

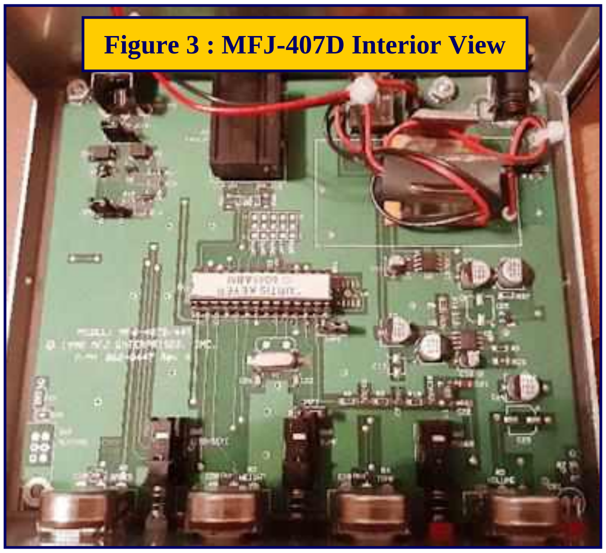


Figure 3 : MFJ-407D Interior View

Selection of the output mode is made through a pair of three-pin headers with a shunt cap on each header **(Figure 4)**. Selection of the ***Direct*** mode requires placement of both shunt caps on the center and ***D*** pins of each of the respective pin headers. It is at these pin headers that the problem arose which apparently led to the failure of the 2N7002 transistor. Specifically, the problem was on the foil side of the PCB, where the pin headers are soldered through the board.

A short-circuit path had been formed at each of the pin headers between the D pin and the ground plane. The green corrosion formed there was conductive and led to a condition wherein both the gate and the drain of the MOSFET were shorted to ground. It is unclear exactly what the failure mechanism of the MOSFET was, but there is no doubt that it showed itself to be failed when the transistor was tested under both in-circuit and out of circuit conditions. The corrosion was completely removed from the board and the cleaned areas were sealed with clear enamel.

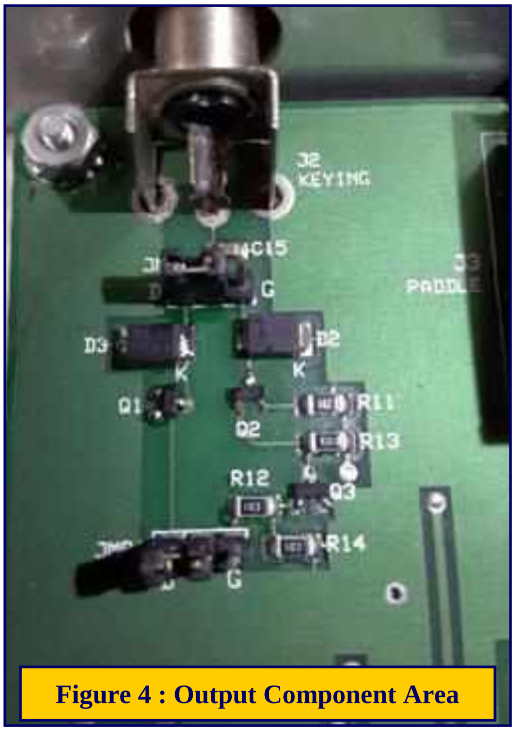


Figure 4 : Output Component Area

I set out next to cure the intermittent problems that this unit exhibited. I noted that I could affect the intermittency by putting pressure on the board in various spots, which led me to look closely at all of the solder joints on the board. As this is largely a surface-mount construction, most of these joints were on the component side of the board. Ultimately, I found and repaired cold solder joints at the IC socket pin rows for the microcontroller (µC or µController), a **PIC16C72 device (Figure 5)**. Reflowing the joints along this IC socket cured the intermittency problems that had existed. As it turned out, one of the indications of power drop-out that I mentioned earlier was the fact that the front panel LED would intermittently go out. It happens that the LED ground is made through the µC, and that the LED's behavior was part of the larger cold solder joint intermittency issue.

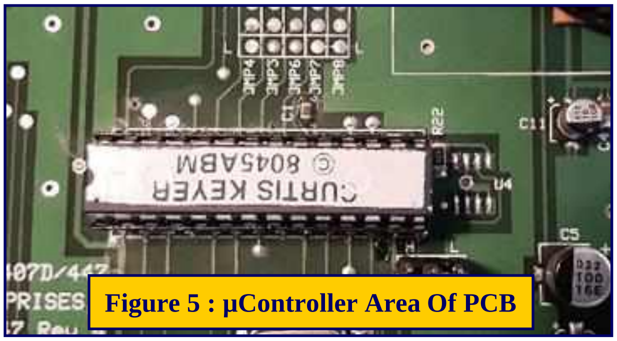


Figure 5 : µController Area Of PCB

Although I do whatever I can to keep my repair pricing reasonable and affordable to most hams, this particular customer made the statement that I was too expensive and I could no longer be afforded. While I know that I keep the costs as low as I can, I have to admit that sometimes, repairing a unit is not economically feasible. Take this repair as an example. The repair bill for this job came in at about $120. A brand new MFJ-407E is available for about ten dollars more, plus tax and shipping. It is very easy to have a repair cost more than a replacement, as parts prices are higher than ever before, without even considering any labor costs. Of course, with MFJ now having gone defunct, that keyer option is no longer available.

This repair was interesting, and locating the intermittent was a challenge that was necessary for a complete repair. I hope that this keyer lasts a good long while and that the customer gets a lot of future use out of it.

See you next month!

2024 Hamfest Highlights

John Zaruba Jr, K2ZA : POTA Program

Boy Scout Troop 9 Food Service

Full Parking Lot

2024 Hamfest Highlights

Bob Famiglio, K3RF : ARRL Update

Jon Pearce, WB2MNF : Balloon Adventure

2024 Hamfest Door Prize Winners

Company	Donation	Winner
GCARC Grand Prize	**$200.00 Cash**	**Diane Amico, W2WHD Vineland, NJ**
ARRL : www.arrl.org	$25 Gift Certificate	Carl Ott, N2RVQ Staten Island, NY
ARRL : www.arrl.org	$25 Gift Certificate	Steve Schuck, WB2WAK Malverne, NY
ARRL : www.arrl.org	$50 Gift Certificate	Jonathan Sever, KC2STH Cedarville, NJ
ARRL : www.arrl.org	$50 Gift Certificate	Blake Vandegrift, KD2FQQ Mount Holly, NJ
Arrow Antenna www.arrowantennas.com	Arrow II 146/437-10WBP Hand-Held Portable Satellite Antenna	Bill Sheppard, WA2KMS Elmer, NJ
Craig “Buck” K4IA Books www.easywayhambooks.com	Pass Your Amateur Radio Technician Class Test	Mary DiFerso, KB3UHF Philadelphia, PA
Craig “Buck” K4IA Books www.easywayhambooks.com	Pass Your Amateur Radio General Class Test	George Pizzo Jr, KA3LWC Richwood, NJ
Craig “Buck” K4IA Books www.easywayhambooks.com	Pass Your Amateur Radio Amateur Extra Class Test	Richard Stealey, K2XT Cream Ridge, NJ
Craig “Buck” K4IA Books www.easywayhambooks.com	How To Get On HF, The Easy Way	George Pizzo Jr, KA3LWC Richwood, NJ
Craig “Buck” K4IA Books www.easywayhambooks.com	How To Chase, Work, & Confirm DX	Richard Stealey, K2XT Cream Ridge, NJ
Craig “Buck” K4IA Books www.easywayhambooks.com	Prepper Communication, The Easy Way	Mary DiFerso, KB3UHF Philadelphia, PA
Elecraft : www.elecraft.com	DL1 20 Watt Dummy Load Kit	Ronald Medykiewicz, WA3VEE West Chester, PA
Hammond Manufacturing www.hammfg.com	(10) Diecast Aluminum Enclosure 1590GBK	Robert Dengler, AC2YS Endwell, NY
Hammond Manufacturing www.hammfg.com	(10) Diecast Aluminum Enclosure 1590GBK	Dennis Ballance, N2MWX Clarksboro, NJ
Hammond Manufacturing www.hammfg.com	(10) Diecast Aluminum Enclosure 1590GBK	Samuel DiBella, N2UFL Feasterville, PA
Hammond Manufacturing www.hammfg.com	(10) Diecast Aluminum Enclosure 1590GBK	Frank Romeo Jr, N3PUU Sicklerville, NJ
Hammond Manufacturing www.hammfg.com	(10) Diecast Aluminum Enclosure 1590GBK	Mark Clark, N3QMJ Carneys Point, NJ

2024 Hamfest Door Prize Winners

Company	Donation	Winner
Ham Radio Deluxe Software www.hamradiodeluxe.com	Software Voucher	Chester Lovelace, WB2NZO Woodstown, NJ
KB3IFH QSL Cards www.kb3ifh.homestead.com	Coupon Voucher	Gus Swartout, KC3TGB Hockessin, DE
Gloucester County Amateur Radio Club	MFJ-2704 4-Position Antenna Switch	Craig Martin, N2ASU Stratford, NJ
N3FJP : www.n3fjp.com	Software Voucher	Hal Fisher, N2FI Pittsgrove, NJ
Gloucester County Amateur Radio Club	Nest Thermostat	Frank Battisick, KA2UFP Little Egg Harbor Township, NJ
Chris Prioli, AD2CS www.AD2CS.com	Noise Detector	John Filicko, KC3PKV Marcus Hook, PA
SDRPlay www.sdrplay.com	SDR Play RSP1B Receiver	Alex Calabrese, WA2ADS Buena, NJ
Signal Stuff www.signalstuff.com	Coupon Voucher	Peter Markavage, WA2CWA Sayreville, NJ
Signal Stuff www.signalstuff.com	Coupon Voucher	Bruce Carroll, WA3RHW Mount Laurel, NJ

Club Member	DMR ID
W2MMD Clubhouse	**3198604**
Michael Andrescavage, N2ICV	3134044
Lance Appel, KE2UC	3200487
Alex Calabrese, WA2ADS	3100583
Chuck Capasso, WB2PGE	3169781
Matthew Carango, N3QB	3169432
Todd Cecilio, KA2YNT	3169458
Anthony Cerami, N2OAC	3202759
Mark Clark, N3QMJ	3102110
Holden Correia-Fisher, KD2JPV	3104911
Mike Covaleski, N2MMC	3134855
Walter Coward, WX2E	3166863
Bob Demola, KD2GFL	3134319
Doug Dersch, KD2VQA	3193630
Thomas Distelcamp Sr, KC2GYC	3110869
Glenn Dougherty, N2YIO	3161836
Adam Duncan, W3DUN	3202691
Herb Dyer, KT2Y	3134907
Harry Elwell, AD5TT	3128498
James Foster, W3JNF	3142117
Karl Frank, W2KBF	3146716
Glen Guenther, KE2BUO	3202079
Melissa Guenther, KE2BWZ	3202496

Club Member	DMR ID
Deirdre Anne Hebert, AD2GQ (AB1ST)	3133330
Gary Mirkin, WA3SVW	3165494
John Murrow, KD2NHK	1134122
Phil Nunzio, WA3RGY	3134336
John O'Connell, K2QA	3110610
Robert Pantazes, W2ARP	3157208
Jonathan Pearce, WB2MNF	3163415
Michael Pecorini, K2MRP	3132996
Michael Pentimall, KC3VTF	3203601
John Price III, KD2QYC	3123583
Chris Prioli, AD2CS	3195449
Michael Resnick, N2WOQ	1134013
Len Rust III, W2LJR	3186225
Len Rust IV, K2LJR	3196243
Dave Sheppard, W2PAX	3112666
Cory Sickles, WA3UVV	1142052
James Simeone, KC2AOF	3134848
Court Smith, KD2SPJ	3186243
Jackson Snyder, AI2D	3164371
Rich Subers, W2RHS	3204316
Brett Waller, K2BKW (KC2UXQ)	3134261
Bill Wood, KD2OSJ	3197459
John Zaruba Jr, K2ZA	3134331

For more information, DMR links, and W2LJR's DMR presentations, go to :
https://gloucestercountyarc.weebly.com/dmr.html

CrossTalk Submissions

This is your Club Magazine. Make use of it.

If you have stories or photos of your hobby that you would like to share with the Club, please do so!

We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue. Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* Club.

All submissions, queries, comments, and editorials should be addressed to :
Jeff Garth, WB2ZBN at djgrath1 <*at*> gmail <*dot*> com

Submission deadline for the November 2024 issue : Sunday, October 20, 2024

Club Website www.w2mmd.org
Club E-Mail Reflector : GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net

DMR Configuration Sequence

1. Obtain and Configure DMR ID :
    - https://www.radioid.net
2. Download Contact List :
    - http://www.dmrcontacts.com
3. Identify Repeater or Hotspot :
    - https://www.repeaterbook.com
4. Define Talk Groups
    - Numerical ID
    - Text Name

https://brandmeister.network/?page=talkgroups

5. Create Channel
    - Select Number
    - Assign Name
    - Select DMR ID
    - Assign Frequency
        - Transmit
        - Receive
        - Bandwidth
        - Power
        - DMR Mode (Simplex/Repeater)
        - TX Permit (Channel Free)
    - Assign Talk Group
    - Assign Color Code
        - Agreed Upon with Other Users
    - Assign Time Slot
    - Agreed Upon with Other Users

6. Create Zone

7. Add Channels to Zones

8. Configure Features

9. Upload Code Plug

10. Upload Contact List

If you recently changed your callsign, contact idteam@dmr-marc.net to have your DMR ID transferred to your new callsign.

ARES Resources

Download the ARES Manual [PDF] : https://bit.ly/3iUhJLQ
ARES Field Resources Manual [PDF] : https://bit.ly/3QT4PtY
ARES Standardized Training Plan Task Book [Fillable PDF] : https://bit.ly/3wg5kVt
ARES Standardized Training Plan Task Book [Word] : https://bit.ly/3ZTNDbR
ARES Plan : https://bit.ly/3XLokXH
ARES Group Registration : http://bit.ly/3XodGpX
Emergency Communications Training : http://bit.ly/3J2gMMf
2022 National Preparedness Report : https://bit.ly/3EnvcTW
Southern New Jersey Section EOP 2022.PDF : https://bit.ly/3SbrXol

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable but is not a requirement for membership.

If you are interested in learning more about the Gloucester County ARES Program or becoming an ARES member, please contact Bob Keogh (KD2NEC@QSL.NET)

2024-2028 Element 4 Amateur Extra Class License Question Quiz

This month we continue with Subelement E1 Commission Rules (6 exam questions - 6 groups).
(Answers on 'Last Page Calendar')

E1D01
What is the definition of telemetry?
A. One-way transmission of measurements at a distance from the measuring instrument
B. Two-way transmissions in excess of 1000 feet
C. Two-way transmissions of data
D. One-way transmission that initiates, modifies, or terminates the functions of a device at a distance

E1D02
Which of the following may transmit encrypted messages?
A. Telecommand signals to terrestrial repeaters
B. Telecommand signals from a space telecommand station
C. Auxiliary relay links carrying repeater audio
D. Mesh network backbone nodes

E1D03
What is a space telecommand station?
A. An amateur station located on the surface of the Earth for communication with other Earth stations by means of Earth satellites
B. An amateur station that transmits communications to initiate, modify, or terminate functions of a space station
C. An amateur station located in a satellite or a balloon more than 50 kilometers above the surface of the Earth
D. An amateur station that receives telemetry from a satellite or balloon more than 50 kilometers above the surface of the Earth

E1D04
Which of the following is required in the identification transmissions from a balloon-borne telemetry station?
A. Call sign
B. The output power of the balloon transmitter
C. The station's six-character Maidenhead grid locator
D. All these choices are correct

E1D05
What must be posted at the location of a station being operated by telecommand on or within 50 kilometers of the Earth's surface?
A. A photocopy of the station license
B. A label with the name, address, and telephone number of the station licensee
C. A label with the name, address, and telephone number of the control operator
D. All these choices are correct

Element 4 Amateur Extra Class Quiz - Continued on page 27

Element 4 Amateur Extra Class Quiz - Continued from page 26

E1D06
What is the maximum permitted transmitter output power when operating a model craft by telecommand?
A. 1 watt
B. 2 watts
C. 5 watts
D. 100 watts

E1D07
Which of the following HF amateur bands include allocations for space stations?
A. 40 meters, 20 meters, 15 meters, and 10 meters
B. 30 meters, 17 meters, and 10 meters
C. Only 10 meters
D. Satellite operation is permitted on all HF bands

E1D08
Which VHF amateur bands have frequencies authorized for space stations?
A. 6 meters and 2 meters
B. 6 meters, 2 meters, and 1.25 meters
C. 2 meters and 1.25 meters
D. 2 meters

E1D09
Which UHF amateur bands have frequencies authorized for space stations?
A. 70 centimeters only
B. 70 centimeters and 13 centimeters
C. 70 centimeters and 33 centimeters
D. 33 centimeters and 13 centimeters

E1D10
Which amateur stations are eligible to be telecommand stations of space stations, subject to the privileges of the class of operator license held by the control operator of the station?
A. Any amateur station approved by AMSAT
B. Any amateur station so designated by the space station licensee
C. Any amateur station so designated by the ITU
D. All these choices are correct

E1D11
Which amateur stations are eligible to operate as Earth stations?
A. Any amateur licensee who has successfully completed the AMSAT space communications course
B. Only those of General, Advanced or Amateur Extra class operators
C. Only those of Amateur Extra class operators
D. Any amateur station, subject to the privileges of the class of operator license held by the control operator

E1D12
Which of the following amateur stations may transmit one-way communications?
A. A space station, beacon station, or telecommand station
B. A local repeater or linked repeater station
C. A message forwarding station or automatically controlled digital station
D. All these choices are correct

Volunteer Monitor Program Report - July 2024

The Volunteer Monitor (VM) Program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service. This is the July 2024 activity report of the VM Program.

- Two licensees in Michigan and Wisconsin received advisory notices to stay off local repeaters, both having received “stay off“ directives from the repeater owners. The licensees were informed that further use of the repeaters would be considered deliberate interference and would be referred to the FCC for enforcement action.
- Technician-class licensees in Pennsylvania and Michigan received advisory notices for FT8 operation on 40 meters. Technicians have only CW privileges on 40 meters.
- A good operator commendation was issued to a licensee in Virginia for exemplary operation as net control of a daily net meeting on 7.251 MHz.
- A volunteer monitor alert was issued on July 20 for a pulsing noise on 20 meters.

The VM Program Administrator participated in a nationwide online presentation to ARRL Section Managers and participated in one FCC meeting.

- The totals for April monitoring were 1,908 hours on HF frequencies, and 2,801 hours on VHF frequencies and above, for a total of 4,709 hours.
- Totals for May monitoring were 890 hours on HF frequencies, and 1,918 hours on VHF frequencies and above, for a total of 2,808 hours.
- Totals for June monitoring were 1,210 hours on HF frequencies, and 1,413 hours on VHF frequencies and above, for a total of 2,623 hours.

Thanks to Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH

2024 Hamfest Program : Mike Federici, WM2Y : Fox Hunts

Why do we Fox hunt
To practice

Jersey String Band Update : October 2024

By Glenn Dougherty, N2YIO

Jersey String Band is starting to get into our busy mummer's season. Our parades for October are as follows :

- October 3rd Woodbury Fall Parade
- October 13th Long Branch Columbus Day Parade
- October 18th Wedding combo for a band member's brother
- October 19th Williamstown Halloween Parade
- October 25th Alloway Halloween Parade

Beside the parades, we are rehearsing every Wednesday night at the Woodbury Heights Firehouse from 7:30-9:30pm. If you know anyone that might be interested in joining us even if it's just a Marshall on New Years Day. We can use as many people as we can get! It takes a lot of people to get the band on the street and moving props for our show in front of the judges. The band also has a podcast that is on YouTube @ Jersey String Band Podcast that features different members of the band and some of the captains from some of the other string bands.

Monday & Thursday Night 40 Meter Net @ 1930 Hours
7.225 MHz (+ / - 5 or 10 kHz)
NCS : Jim Clark, KA2OSV

Child Abduction Response Team Exercise - Thursday, October 17, 2024

By Bob Keogh, KD2NEC - kd2nec@qsl.net
Gloucester County Emergency Coordinator

The date for the **Child Abduction Response Team (CART)** exercise is Thursday, October 17, 2024

The time and location TBD.

Some examples of our tasks will be :

1. Registering additional volunteers at the Command Center
2. Delivering messages to other team members
3. Distributing food and water
4. Whatever else they need

These tasks are not the type we normally look for but, just being a part of this team is very satisfying and informative. It's a fantastic learning opportunity to participate in an Emergency Operation Center (EOC) event. All the Government Agencies will be there, with their Mobile Communications Vehicles, that we can tour.

I suggest we all carry an HT, just in case we need to communicate with one or more of our GCARC teammates. If you don't have one, we will loan one to you.

We have five or six GCARC/ARES members that have signed up for this event, but we could use a few more, in case a couple of volunteers have to cancel at the last minute.

Please take advantage of this unique opportunity by sending an email to me. I will be forwarding more information as soon as I receive it.

Amateur Radio Emergency Services - October 2024

Resources - News - Updates

By Bob Keogh, KD2NEC - kd2nec@qsl.net
Gloucester County Emergency Coordinator

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In This Issue :

- **ARES® Briefs/Links**
- **Amateurs Support National MS Society's Ride Across Minnesota 2024 : Lessons Learned**
- **Opinion : Net Managers - Want to Recruit and Retain More Check-ins? Do This!**
- **K1CE for a Final : On Leadership**

ARES® Briefs/Links

ARRL's Simulated Emergency Test (SET) is October 5 - 6, 2024 **(https://www.arrl.org/simulated-emergency-test)**. This nationwide exercise is the chance to test your personal emergency-operating skills and the readiness of your communications equipment and accessories in a simulated emergency-like deployment.

New Emergency Communication Courses from ARRL - ARRL Director of Emergency Management **Josh Johnston, KE5MHV**, joins the ***On the Air*** podcast to share details about **ARRL's updated Emergency Communication courses (https://www.arrl.org/emergency-communications-training)**, which have been broken into three successive levels - Basic, Intermediate, and Advanced. The courses are available free of charge at the **ARRL Learning Center (https://learn.arrl.org)**. The On the Air podcast is available on **blubrry (https://blubrry.com)**, iTunes, and Apple Podcasts. It is a monthly companion to **On the Air magazine (https://home.arrl.org/action/Subscribe/Magazines)**, a publication for beginner to intermediate ham radio operators, produced by ARRL.

Hams Train and Give Back - **Fair Lawn Amateur Radio Club (FLARC - https://www.fairlawnarc.com)** members **Nancy Beattie, N2FWI**, and **Gordon Beattie, W2TTT**, supported the Passaic County Fair at Garrett Mountain Reservation in New Jersey again this year as a way to affect an immersive emergency communications training exercise and to give back to those with whom they've volunteered for decades. The fair serves as the county's annual emergency deployment exercise and engages all county and several municipal agencies while being evaluated by the New Jersey State Police Office of Emergency Management. The Deputy Emergency Management Director, **Sheriff's Officer Rob Scott, KD2ION**, has a small team of volunteer hams who form as the Situational Awareness Unit identified in the Incident Action Plan. Nancy and Gordon work with Rob and two other volunteers, FLARC member **Dave Henninger, N3UXK**, and **Aly Badawy, AL0Y**.

National Preparedness Month : Creating a ***PACE*** Plan - Imagine cell service, internet, and the repeater going down and you have no way to contact your team, or family. What would you do? Having a plan to communicate with team members or family members when infrastructure goes down is a great way to provide peace of mind, considering the threats we face today. A plan can also reduce the amount of stress we experience during these types of outages, and yes, ***it can happen*** as evidenced in hurricanes, tornadoes, and wildfires - and the list goes on.

PACE is an acronym for ***Primary, Alternate, Contingency and Emergency***. When creating a ***PACE*** plan, thought is given to how you would communicate to team members or family members within each category.

SNJ ARES Update - Continued on page 31

SNJ ARES Update - Continued from page 30

The ***primary*** plan is what you do when the world is operating as normal, with no interruptions to power grids or communications systems. An example of a primary plan would be to use your cell phone to call a team member or family member.

Alternate plans are methods of communication that would not be as convenient nor as good as the primary plan's methods but are still viable options. An example of an alternate plan methodology is to use a satellite phone.

Contingency plans come into play if primary and alternate plan methods fail. This plan solution is not as convenient as the first two plan options. In this scenario, cell phone networks and the internet are likely down. An example of a contingency plan is to use a radio such as a **Family Radio Service (FRS)** handheld to communicate.

The last step in ***PACE*** planning is the ***emergency*** plan and method. This is your last-ditch option. Nothing else has worked and you need to think out of the box. In this scenario, your last - ditch effort might be to meet your team or a family member at a mutually agreed upon location. If the person doesn't show up, then maybe you can leave a note in a pre-identified location and head home.

So, considering the points above, a basic ***PACE*** plan could look something like this :

1. ***Primary*** : Cell phone - This is the go-to method that operations personnel use as a daily solution.
2. ***Alternate*** : Sat phone - This is a backup method that is not preferred but may serve as a good work-around until the primary problem is resolved.
3. ***Contingency*** : Amateur Radio - This is a fallback method that uses totally different technology, systems, etc.
4. ***Emergency*** -: Time/place - This is the last-resort method when the others fail.

You would then add more detail around each of these categories, like specifying a group for texting, channels for satellite and radio, and a time/place. When building your plans, you'll want to keep in mind that you'll want to know what the trigger is to cause you to move through the plan. This is referred to as a trigger point.

Also, within each section, you can have sub-plans. For example, if you were to planning to link up with your team member or family member at, say, 1200 at a prearranged location and they did not show up: as part of your emergency plan, you can spell out, "If I am not there exactly at 1200 Hours, wait an hour and at 1300 Hours, if you have not heard from me, start making appropriate inquiries." And, "by 1400 Hours, if no contact, notify emergency services." By doing this, I am defining trigger points.

When working on your ***PACE*** plan, try to avoid having a single point of failure. If all your plans rely on the internet, then you are totally vulnerable to internet failures. A good way to look at this is to expect that things are going to fail and to plan accordingly.

PACE plans should be reviewed and updated on a regular basis to account for changes to the channels you use, people included, phone numbers, etc. Instructions can be printed on a wallet-sized card and given to each person.

PACE plans are not just for communications. They are used for power, water, transportation and other utilities and services. We develop these plans to ensure mission success. Have you or your team developed a ***PACE*** plan? - ***Scott Read, KM6RFB, Placer County (Northern California) Emergency Coordinator; COMT, COML, AUX-COMM*** [See also the Cybersecurity and Infrastructure Security Agency site ***for more information.***]

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Opportunity Knocks: Vermont Task Force to Assess State Emergency Communications - Vermont's Public Safety Communications Task Force announced that it has hired a provider to assess the state's emergency communications capabilities across the board, including the capabilities of each of the 38 emergency communications centers (ECCs) statewide. The task force will be working with Mission Critical Partners (MCP) to evaluate the potential for statewide public safety communications and to develop cost and governance models to achieve it. MCP and the task force will be collaborating on a multitude of assessments including performance of all systems within each ECC; testing coverage to find out where gaps exist; each center's hiring, training and retention strategies and tactics, and how successful they are; evaluation of cyber security strategies; and each center's continuity of operations and disaster recovery plans. "The Public Safety Communications Task Force is pleased to be working with MCP," **Jennifer Morrison**, task force co-chair and commissioner of the Vermont Department of Public Safety, said in a statement. "The firm's integrity and quality of work speak for themselves." ***More information on an apparently golden opportunity for Vermont and other states/sections' ARES programs. - FEMA Disaster Emergency Communications News Clippings and Topics of Interest Vol. 14 Issue 14, July 16-31, 2024***

For Hurricane Debby, **Arc J. Thames, W4CPD**, Northern Florida Section Emergency Coordinator, reported that an amateur radio operator was stranded due to high water in Suwannee County. He used the statewide 70-cm FM repeater network, SARNET, to relay the information and a monitoring operator in Jacksonville was able to coordinate with an urban search-and-rescue (USAR) team with an embedded ham radio operator to facilitate the rescue of a family. ***[More information and updates on the amateur radio community's response to the recent spate of tropical storms is available on the ARRL public service page.]***

Amateurs Support National MS Society's Ride Across Minnesota 2024 : Lessons Learned

The July 2024 National MS Society's ***Bike MS : Ride Across Minnesota*** involved five days of covering 246 miles. The goal was to raise $500,000 for medical research. We had 290 riders for the week and 26 volunteers on the Route Safety Team. There were four to five rest stops (each with an amateur operator) on each stage/day of the event. Hams generally organized "Net Control," usually at the finish line/camping site, and coordinated resources. We borrowed five repeaters and invited local hams for support.

The course was not hilly by Colorado standards but did cover a lot of territory. Preparing the ***ICS-205 - the Incident Radio Communications Plan*** - took effort : We needed to select repeaters and get the trustees' permission to use them. Many were Yaesu System Fusion (digital mode) repeaters, and we needed to shut off the digital mode for the week to prevent random internet/out of area interference. (Also, many operators did not have the digital mode radios). The "Safety" phone was on Google Voice, forwarded to us.

One ongoing challenge/opportunity was the mash up of volunteer groups. We had motorcycle riders, bike officials and van escort groups; most were not hams. Six staff members were the key decision makers and support. A simple, secure and elegant solution was to use the ***"Work"*** version of ***Zello***. This accommodated everyone and had a GPS mapping feature. You could see the locations and velocities of assets and have comms with all your team. Decision making was by the book : ***NIMS*** - prepared resource teams did their thing and would seek guidance when needed. Daily hot wash meetings were held and we worked hard to improve on our performance. There were a few minor medical incidents, a dog chasing bikes, some SAG runs and a close call or two with fast oncoming semi-tractor trailers.

On one of the days, routine comms shifted heavily from Zello to the ham repeaters and the Race Director was convinced his cell phone was broken. (Emailing forms around to a team on 97% mobile devices and managing real time incidents was not a realistic thing).

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If anyone complains ***"there are never any call outs for hams,"*** consider the panoply of MS Bike Rides across the country that regularly involve amateur radio operators in support.

Pro Tips

If you set up, tear down and move five times in a week, fussy antennas and gear are a no. Hard-to-program radios are a constant nuisance as we bring in and rotate team members. Logging matters. Lost riders are bad form. Zello does speech to text - it worked well. Focus on the mission. Wear the issued volunteer shirts and be kind to those asking random questions. How do you ***"shadow"*** a super fit bike ride marshal for 246 miles? Bits of first aid knowledge are very popular in a time of severe volunteer medic and EMS shortages. Be 100% self-sufficient - the race director is not your concierge. We brought batteries and solar : finding live AC power in parks and church parking lots takes time and effort. Don't bore event leadership with radio details - it all just works. You cannot get good at this job by just watching videos - real world practice is the key. You will often be teamed with or work for non-hams; keep them informed and in the picture. - ***Erik Westgard, NY9D, Minnesota Assistant Section Emergency Coordinator [Editor's note: see NY9D's fascinating and educational QRZ bio entry.]***

Opinion : Net Managers - Want to Recruit and Retain More Check-ins? Do This!

What's the first thing a radio amateur wants to know when he/she gets on the air? Well, I know what my first interest is, whether in QSO or on a regional phone net - ***it's how strong is my signal?*** I dare say that it is every ham's first interest.

Pro Tip : For net managers eager to bolster their net's roster of regular check-ins, have your net control stations (NCS) give a simple, two-character signal report when acknowledging checking-in stations. For example: Net Control of the North Florida ARES Net on 40 meters calls for check-ins. A station calls to check in, giving his/her call sign. Net Control acknowledges the station as follows: ***"K1CE, S7."*** Thus, in a split second, not wasting any of the net's time, the check-in knows that his signal strength is pretty good at the NCS end. (For FM repeater nets, the NCS could give the checking-in station a signal report as a degree of quieting : e.g., ***"N5CBP, 90%Q"***).

Personal note : I check into my daily net Rota with just 5 or 10 watts RF output. It's important, and significant in a disaster situation, to know that I can make it into the net on QRP. (Plus, it just plain satisfies the innate interest in all of us to know how strong our signal is!)

So, if you're a net manager or net control station, and want to entice newcomers or recover previous members who might have lost interest in your net, give this simple, efficient signal report protocol a try! - ***Rick Palm, K1CE [Comments? Please send them to k1ce@arrl.net - thanks!]***

Respectfully,
Bob KD2NEC - My contact information is in our Club Roster List

October 18 - 20, 2024

So, You Want To Learn Morse Code…

Thoughts From A Guy Who's Been Around

By John Zaruba K2ZA[1]

So, you've decided you want to learn Morse Code, that's awesome!

Maybe it's because you want to increase your contest scores or bag more DX. Perhaps it's the lure of smaller, simpler equipment for POTA and SOTA activations. Or, you're looking for your next ham radio challenge. As a guy who has been operating **CW**[2] pretty much continuously for 47 years, I have a thought or two on the art and skill of radiotelegraphy and practice thereof.

Similar to the Chinese strategy game of "Go", the basics of CW are relatively straightforward to learn, but true mastery is the work of a lifetime. As with Law and Medicine, you're never finished, but always learning and honing your practice of the art.

I'm going to give some hints and suggestions that are geared for the ham who has no previous experience with Morse code, and I'm borrowing liberally from my friend **Bob Creigh WV7W**[3] who has produced a series of basic instruction videos called ***"CW Zero 2 On Air"***.

The thought of learning CW can seem intimidating but the information you need to learn, the characters (A-Z), the numbers (0-9), and punctuation & pro-signs (about 6 really useful ones) is very manageable. Break the elements down into small chunks and the whole process is less daunting. Give yourself some grace, we humans tend to be our own worst critics. Do not expect perfection, mistakes are going to happen and you should get comfortable with that.

Morse code is an audible language and organizing your training around that will save you much grief and wasted effort down the road. You will need to recognize each character as a unique sound, and speed is the key. Our brains are wired for novelty, from the days when we lived on the savannah and being able to recognize unique sounds could be the thing that kept you off the leopard's lunch menu.

When you first start learning the code, the urge to count the elements can seem irresistible (dit dah…oh, that's an "A"). That ***"decoding"*** of each character introduces a delay as your conscious mind consults a lookup table of each character. This where a speed ***"plateau"*** can rear its ugly head, typically around 10-15 words-per-minute.

Instant Character Recognition, or ICR, is the tool used to beat the lookup table your conscious mind wants to use. By learning the characters at a fast speed, a minimum of 25-30 WPM, your brain does not have the time to break down and decode each character and you learn each as a unique sound with it's own mental ***"shape"***. Over time, ICR will enable your brain to offload recognizing the characters to the sub-conscious freeing you up to ultimately go faster.

One of the potential pitfalls of learning CW is becoming a perpetual student, always working with the training tools until you think you're ready for that first QSO. Many people never get to that **Stuart Smalley** moment of ***"I'm good enough, I'm smart enough, and doggone it, people like me"*** about their Morse Code practice.

Let's flip that idea on its head, we're not going to get good to get on-the-air, we're going to get on-the-air to get good. No CW training device, software, or website is as good for your development as making contacts on the air.

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So, You Want To Learn Morse Code - Continued from page 34

While there are many training tools available to learn the characters, numerals, and pro-signs, my favorite is **MorseCode.World**[4]. It's a very comprehensive tool, web based so it will run on almost any computer, and it's FREE. **MorseCode.World** runs best with a Chromium based browser like Google Chrome or Microsoft Edge, it can be a little squirrelly with Apple's Safari.

If you follow the link in the previous footnote you'll find several preloaded content tabs. There is no particular advantage in any of the choices. What ***IS*** of importance is choosing the letters and numbers to start with, and my advice is to learn your call sign. That is the most important string of letters and number because once you learn it you can get on the air. Granted, you're not going to be able to do a ton of things, but you can identify your station which makes you legal in the eyes of the FCC.

Click the letters and number of your call sign, they'll have a yellow square around them when selected. Further down the page under Message Options click ***"hide"*** so you don't see what characters are sent. Under Playback Controls turn off ***"detailed controls"*** and set the character speed to 25 words per minute (at a minimum), but 30 is better. To the right of this section there is a link for ***"Speech"*** which allows you to choose the voice the trainer will use. Some voices are easier to understand than others, I find that the EN-AU (English language, Australian accent) works best for me but your mileage may vary.

The training method we're going to use is called ***"hear-say"***. It leverages the speech part of your brain to speed up associating the sound of a character with the character itself.

Push the play button and the trainer will select a character at random and send it at the speed you chose. After about a second, the computer will speak the character name. Your job is to say the character name ***BEFORE*** the computer does. Work in blocks of 10-15 minutes 2-3 times per day.

When you get to the point that you're beating the computer about 75% of the time, start reducing the recognition time. When your recognition time gets down to about 150 milliseconds, congratulations you have achieved **Instant Character Recognition!**[5]

The next characters you should learn are N, J (assuming you live in New Jersey), R, S, T, U, along with the numbers 3,5,7, and 9. Why this particular set? Because we're going to get on the air with the most straightforward QSO format around, ***the Parks On The Air (POTA) exchange***.

Here's the gist of a POTA activation QSO. The Activator is K2PRK in New York and the chaser is N1ELM in Connecticut:

The activator starts :

- **CQ CQ POTA DE K2PRK K2PRK K**

The chaser drops their call sign :

- **N1ELM**

The activator replies :

- **N1ELM GM (or GA if afternoon) UR (you are) 579 579 NY NY [BT] (break)**

The chaser sends :

- **[BT] TU (thank you) UR 559 559 CT CT [BT]**

So, You Want To Learn Morse Code - Continued on page 36

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And the activator will end the QSO :

- **[BT] TU CT 73 QRZ DE K2PRK**

This exchange is the basis for ***POTA CW QSOs*** and since the activator is the person that submits the log to the ***POTA*** website, you will get credit for the ***QSO EVEN IF YOU MISSED EVERYTHING HE SENT***. As long as you sent your call sign clearly enough for the activator to put it in his log it was a successful contact.

This will allow you to start getting valuable on-air experience without the pressure of having to copy everything. It will also provide some motivation to improve your CW knowledge so that if someone goes ***"off script"***, perhaps asking for some information like your county, you can respond in a relaxed way.

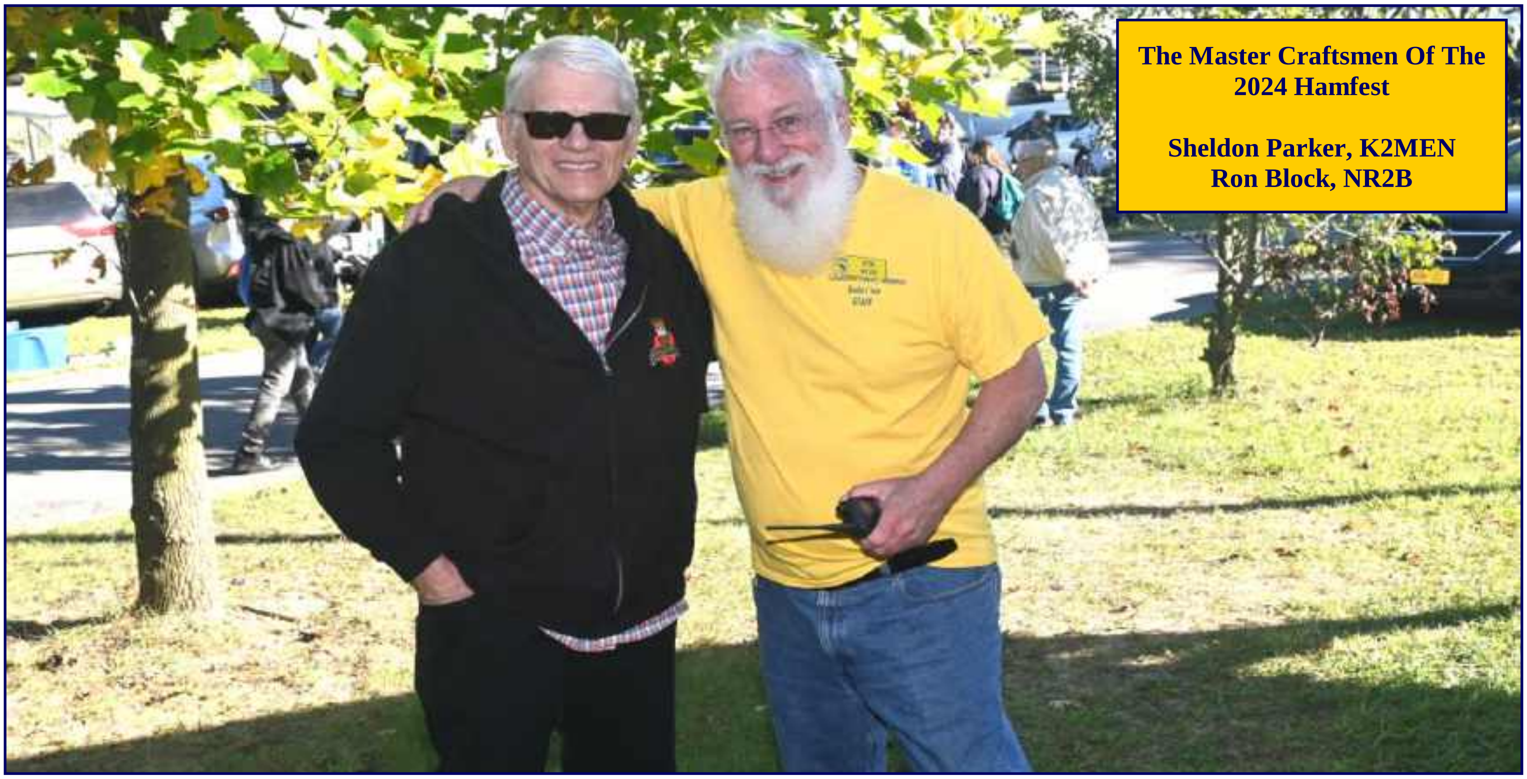
Eventually, this type of operation can get a little stale, when you start feeling like that you'll be ready to move on to the next stage of your CW journey.

But that's another article for another time…

73 DE John K2ZA

Notes :

1. Full disclosure, I'm a coach with CW Innovations. CWI helps people learn to ***"head copy"*** and increase their enjoyment of the mode : **https://cwinnovations.net**
2. While Continuous Wave (CW) is a modulation method and International Morse Code is the encoding scheme, for our purposes here the words will be used interchangeably.
3. Bob's YouTube channel is called ***"House of Ham"*** : **http://www.youtube.com/@houseofhamradio**
4. Morsecode.World : **https://morsecode.world/international/trainer/character.html**
5. Yes, 150ms is not really instant, but that represents the propagation delay of neurons firing in your brain so that's about as instant as hominids get.



The Master Craftsmen Of The 2024 Hamfest

Sheldon Parker, K2MEN
Ron Block, NR2B

Regional Skywarn Websites For On-Line And In-Person Training Classes

Philadelphia/Mt Holly Skywarn : www.weather.gov/phi/skywarn
State College, PA Skywarn : www.weather.gov/ctp/skywarn
Pittsburgh, PA Skywarn : www.weather.gov/pbz/skywarn

State College, PA Skywarn Advanced Winter Spotter Talk - Virtual
Thursday, November 14, 2024 @ 1800 to 2000 Hours
Google Meet : https://meet.google.com/xrj-vuka-mjc ; Phone : 910-634-0889; PIN : 703 198 061#

Weather Information Nets & Frequencies

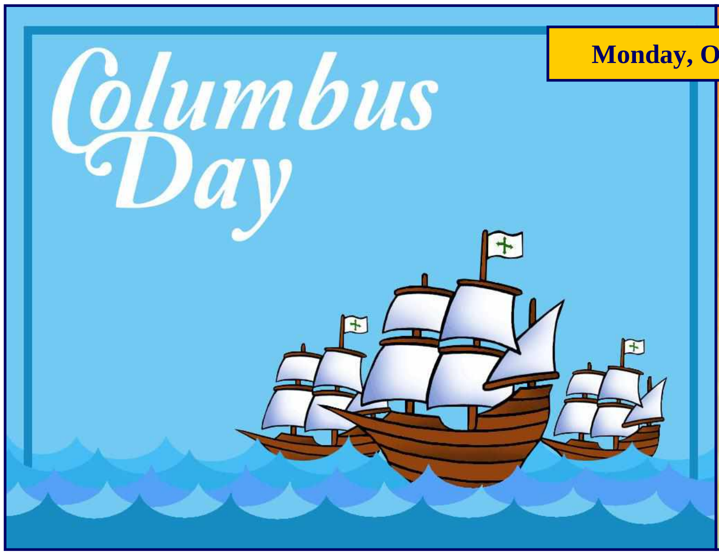
Hurricane Watch Net : www.hwn.org

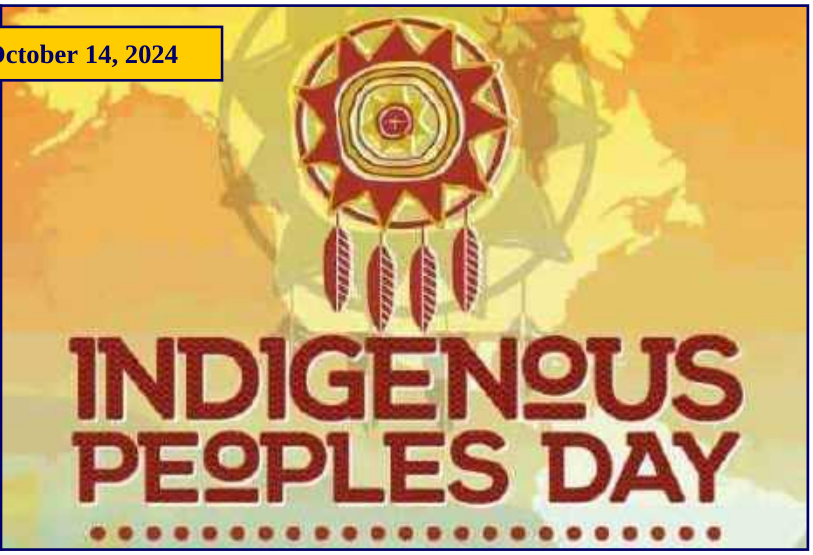
- **Day Time : 14.325 MHz**
- **Night Time : 7.268 MHz**
- **Information : 14.300 MHz**

Local SKYWARN Frequencies :

- **Atlantic County : K2BR, 146.745 MHz (-) 146.2 Hz, Net Every Monday @ 1900 Hours**
- **Camden County : K2EOC, 146.895 MHz (-) 91.5 Hz, Net Every Thursday @ 2030 Hours**
- **Cumberland County : KE2CK, 146.805 MHz, (-) 118.8 Hz**
- **Gloucester County : W2MMD, 147.180 MHz (+) 131.8 Hz, Net Every Sunday @ 1930 Hours**
- **Salem County : N2KEJ, 146.625 MHz (-) 131.8 Hz**

Monday, October 14, 2024





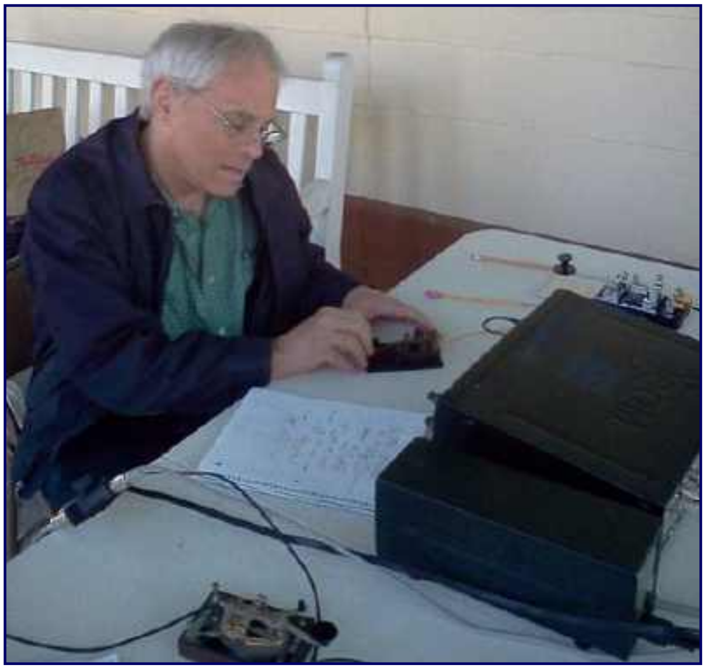
Full Hunters Moon : Thursday, October 17, 2024 @ 0726 Hours

This is the month when game is fattening up for winter. Now is the time for hunting and laying in a store of provisions for the long months ahead. Drying Rice Moon (Dakota) describes the next process in preparing rice for winter. Falling Leaves Moon is an Anishinaabe term. Freezing Moon (Ojibwe) and Ice Moon (Haida) refer to the increasingly cold temperatures of this period. Migrating Moon (Cree) refers to the time when birds begin to fly south.

Old Farmer's Almanac - www.almanac.com

Conversational Morse

By Karl Zuk, N2KZ



Karl Zuk, N2KZ Operating From His Porch

I feel a strong mission in life to promote the use of Morse. I love CW operating. Why is it a masterpiece of simplicity and utility? I want to show you! I have shared this article to inspire all of my students. Hopefully, it will inspire you!

Conversational Morse

There must be a million ways to learn Morse code. I have heard of some doozies! Sing Morse code. Code by hypnosis. Learn while you sleep. Incorporate written Morse into pictures. Crazy charts showing alliances between letters. Nutty associations: "F - Fetch a fire man" Huh? My favorite : Morse code sent using heavy metal guitars! **https://youtu.be/qaHgdFH3jgs**. You can't write this stuff!

There are an equal amount of classic Morse code ***excuses***. Tell me all about the reasons you ***can't*** learn Morse code. My ears can't hear the tones. It makes me nervous. I have reached a plateau. My hands are arthritic. I can't concentrate that long. The clicking disturbs me greatly. I had a dream about aliens that spoke Morse code. It scares my cat! Don't fret. Karl is here to ease your pain!

I have been using and teaching Morse code for over twenty years. I have met hundreds of people through Morse. I have seen some amazing feats! I once worked a ham on 80-meter CW who was deaf and blind. He loved Morse code. Right up front, he asked me to send slowly and ***deliberately***. I found out why! He would rest his fingers against a speaker cone to ***feel*** the code come in. Days later, I received a grey QSL postcard from him that had no stamp. (His wife had written the card.) He told me that handicapped people can send mail using a special frank on their letters instead of a stamp. Amazing!

Sending QLF is supposed to be a funny Q-sign that means "send with your Left Foot." It kiddingly says "Your sending is horrible!" Well... I worked a ham who had arthritis in his right hand, so he learned how to send with his left hand. When his left hand fell to arthritis, he was determined to keep sending. He mounted a straight key to a piece of plywood he placed on his floor and learned to send with his right big toe! He actually sounded pretty good, too! I never found out if he could send with his left toe, too!

I used to have a 10-meter transceiver in my car and I would send Morse with a straight key on a wooden board sitting on my passenger seat. It was more comfortable than you would ever believe! I worked the world commuting from Manhattan to my home. One afternoon, one of the wires to the key broke off. I actually quickly ended the QSO by touching the broken wire to the key base to finish my message. This is not a recommended method of operation!

The moral of these stories is simple: When it comes to Morse code, there is very little that should stop you! I have a great friend that I met when he asked me to tutor him in Morse as part of his rehabilitation from a stroke. He did very, very well and was so grateful for the attention. I can tell you this. You can summarize learning Morse in one single word : PRACTICE!

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Why do you PRACTICE? With just a basic Technician license, you can get on the air on HF (shortwave) and operate with 200 big watts with no antenna restrictions! No joke. You can work the world right from your shack! The CW frequency allocations for Technicians are just as powerful: (80-meters) 3525 to 3600 kHz, (40-meters) 7025 to 7125 and (15-meters) 21025 to 21200 kHz. Don't you want to try? Rock on!

Morse is simplistic. It is just dits and dahs. No aural modulation or computer interfacing required. Use a key, a bug or a paddle and make your signal go on and off. That's it! The robust nature of this Morse is just amazing. With little complexity, you can send code over the air with tiny amounts of power and be heard around the world. Morse defies distortion, noise, interference and fading. Error correction is built in. Miss a letter or two and you can still retrieve the overall message. Get the message? You bet!

Thoughtful Teaching

When I teach and tutor friends who want to learn code, I take a somewhat different philosophy than most. My approach is logical. A very basic QSO is a simplistic game of fill in the blanks where you look for key words: The other person's call sign, name, location and possibly the name of their rig and type of antenna. An RST signal report is usually sent as well but a simple 5 - N - N (for 5-9-9 - a perfect signal) is quite acceptable.

Quite frankly, all you really need to copy is their callsign and their name. If you quickly look up their callsign on **QRZ.com**, you might be able to fake that, too! If your conversation continues a little longer than a basic "give the basics then hit and run" QSO, you may be called upon to send your rig and antenna information and possibly a weather summary about your QTH: 'It is sunny and 55 degrees.' With a little practice, you could handle that too!

The core of my syllabus is built on learning to hear the information that makes your QSO unique. Full sentences are not required. Using standardized shortcuts is always a big help. Two single numbers - ***73*** - equate to "best wishes." My location is becomes ***QTH***. Is it cryptic? No! It's in code! Listen for callsigns, operator names, locations and possibly rigs and antenna types and a weather report. You are done! This is what you focus on. This is what you drill. This is how you build your confidence and enjoy success. QSL?

When you are a brand new beginner, you don't really have to comment directly about what they have just sent you. All you have to do is eke out the items they are talking about to make a coherent reply. The specifics are secondary. Copy their callsign and maybe their name. These are the essentials for your ears to capture! Complex detailed content comes with improving your fluency through practice and experience. It can be joyful and fun. I promise!

Think of it as trying to have a conversation while attending a loud party or any other noisy location. You can reply with your information and then gracefully say "TU es 73s" - thank you and best wishes - and complete the QSO like a champ! Congratulations! You made it! Another entry in your log book!

Before you tell me that this is no attitude to take and this is a miserable way to start learning code, try to remember your very first CW QSOs. Didn't you fight your way through like this when you began to try to receive code? I know I did!

When I took my first 5 words per minute code test I scribbled down many smaller words but found myself just a word away from passing the code test! My examiner told me to look very carefully at what I had copied. I looked at K_NW__D over and over trying to understand the message. It dawned on me! The broken word was ***Kenwood***! I passed! I earned my CSCE! (Certificate of Successful Completion of Examination) I earned code privileges! I was now a Technician Plus!

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The First Steps

Students starting from the very, very beginning take baby steps. I insist that graphical Morse charts with dark black dots and dashes are strictly prohibited. You can use a cheat sheet but the code equivalents must be written in phonetics not graphics. You are listening to Morse like any other language. You are not a computer attempting to make coherence from code. You are a living and breathing human being with ears!

In time, you begin to hear distinct letters and then full words and phrases. You immediately recognize dit-dit-dah-dit as the letter F and so on. I send one letter at a time and you tell me what letter it is. This is a very important step! ***You are becoming a good listener!***

When I start seeing you've gained a little confidence in identifying letters, we advance to people's names and rig types. Let's try easy names like E D and A L - and - the big four manufacturers that I like to call I KEY! ***Icom***, ***Kenwood***, ***Elecraft*** and ***Yaesu***. (These are the very first whole words I will send to students.) One wonderful rig name to copy is Ten Tec. It is very simple in content and has a distinct sound and rhythm to it! It's easy to remember and may become the first words you understand without spelling them out!

These lessons are peppered with more letter and number drills but in a very sneaky way. I send them as v-e-r-y s-l-o-w call signs! Let me also share this insider tip: When you are used to sending and listening to code at 25 words per minute, shifting gears down to 3 words per minute takes a lot of care and concentration! Boy! Does it sound different!

From the start of your schooling, you really should listen to each character as if it were sent at 15 words per minute. The timbre of the sound of each letter of the alphabet will always be the same but we leave a good pause between each letter to let you consider and think about what each one is. This is called the ***Koch method***. Learning the fast sound of each letter can really accelerate your studies. You don't have to learn how a letter sounds sent slowly and then learn all over again when things speed up. It just makes sense. You'll see!

I will say this over and over again: ***Become a good listener!*** At this point in the course, you want to lead your students to find a HF receiver (or access a SDR - Software Defined Radio - over the Internet) and start listening to real over-the-air QSOs. My initial instructions: Just try to ***copy the call signs*** of the two stations that are talking. That's it! Simple! The callsigns will be conveniently sent several times during the QSO exchanges so you will have a lot of chances to check if you have copied the calls just right. Then look up both operators on **QRZ.com** and see if what you copied makes sense. QSL?

Great places to listen for slow code are from 7025 to 7060 kHz on 40 meters and 14050 to about 14060 kHz on 20 meters. See who you can copy! It's just like you are working them yourself!

Later on, my students advance to picking out more details like the QTH and exact rig and antenna type. Becoming a good listener is great fun and really boosts your confidence when you can break the code! When you can reach out this far, you are almost ready to leave the nest and fly on your own!

The ultimate test and drill is sufficiently difficult for even for seasoned DXing CW operators. ***Listen*** to CW code practice broadcasts from the ARRL via the powerful signals of W1AW from Newington, Connecticut. ***Send copy*** you can find in written material like newspapers and magazines. In both cases, all of the words you'll handle will be complex and way beyond the content you'll hear in regular CW QSOs over the air. When you have confidence sending and receiving advanced content with collegiate-level vocabulary, you have earned your Master's degree in Morse!

N2KZ Conversational Morse - Continued on page 41

N2KZ Conversational Morse - Continued from page 40

The W1AW broadcasts are really heavy sledding for beginners but your listening muscles will grow strong and fast if you put your mind to it! Their progressive speed format gives you an instant readout of your current speed status. See how fast you can go! Check out W1AW's latest broadcast schedule at: **http://www.arrl.org/w1aw-operating-schedule**.

Searching for other fun ways to build your code speed? While you are outside walking or driving, look at billboards or road signs or anything you can see and try to send all the letters in your head: "Speed Limit 25" and things like that! Any text will do! Don't forget: Listen to HF CW every chance you get! Sing CW if you want to scare people! Code can be great fun!

Another incentive : As you get comfortable sending code, your on-air conversations will grow in complexity and content. You can share your experiences and stories with lots of other people who are just like you. Occasionally, you might react to what is being sent or even laugh out loud. Consider how crazy people will think you are if they hear you listening to the dahs and dits and you are laughing! The last laugh will be on them... and only YOU will know what is being said! You can read code!

Success

All first QSOs are big leaps! You might be a little scared or apprehensive but you will get through it! This is a unique experience you only have once! Time will fly by and you will immediately earn newfound courage and confidence.

Keep going! Let's try for another one! Your logbook will grow and grow and your signals will travel far and wide. Have a nice trip! You will develop a skill you can enjoy for ever and ever. Congratulations! You are a CW operator!

A quick note about Morse code keys : I always encourage beginners to first learn with a basic straight key. It is the stick shift in the world of CW. Your sending will be deliberate and accurate. A straight key will allow you to cruise along with your message and then slow down to emphasize difficult content: "OP K-A-R-L QTH K-A-T-O-N-A-H N-Y. SO HW CPY? Please remember: Using paddles, bugs and keys are an excellent way to send really, really bad code. Rapid sending devices are hard for beginners to control and require advanced skill. Stay straight!

Brevity

If you really want to polish your skills, discover how to operate like a first-class pro. Learn from the people you meet on the air! You will find the most important and meaningful QSOs you can have are with seasoned old-timers who were professional military or marine Morse operators. They handled important and essential message traffic on a daily basis using the most expedient and accurate methods possible. These guys really know their business and are often anxious to share their tricks to new generations of CW operators. They are my most precious moments on the air. The lessons I have learned are invaluable. Listening to all of their adventures is amazing!

The finest tip you can ever learn from them can be sent in one simple word: ***brevity***. Listen to your heart and always remember this : You have a lot of complex information to send and it needs to be understood with word perfect accuracy. Time is precious and fleeting. Get the job done!

Follow the format used when sending old-fashioned telegrams. The cost of the message was based on how many words you sent. You don't want to send unneeded words that don't add meaning to the message. There are some terrific tips to be learned to master this skill!

N2KZ Conversational Morse - Continued on page 42

N2KZ Conversational Morse - Continued from page 41

You probably already know some basic shortcuts. Just using my voice, my opening statement might be: ***"NM9J... This is N2KZ. Thanks for your reply. Your signal is very good with nice tone. So how is your copy? Back to you. NM9J from N2KZ. Go ahead."*** Switch gears to Morse code CW speak and you will get: NM9J DE N2KZ TU UR 5NN SO HW? AR NM9J DE N2KZ K. Short! Quick! Brilliant! Accurate!

Learn the jargon : There is no need to patiently send that you have a ***Yaesu FT-dx1200 connected to a near vertical incidence skywave antenna***. Cut it down to the essential content : Rig? 100W to dipole. Done! End fed wire becomes EFW. End of message: AR. Back to you: BTU. Really quick "over": BK. See you again : CUAGN - I am sure you get the idea!

Ah! But there is more! An old Navy operator taught me this trick: Give up the endless pro-sign for a period: di-dah-di-dah-di-dah. Just send an X - dah-di-di-dah instead. This was a shorthand that was used by Morse operators going back to the beginning of time. It has a very distinctive sound and does not waste time and energy. It is a fine break between thoughts and universally understood by all who know!

Another trick has turned up in the last year or so to these ears. Experience the insane madness of a big on-air contest longing for multitudes of QSOs and rare DX. The faster you can make a contact, the more stations you can log. Sending long full locations is simply unacceptable. In vogue now is sending your location simply as a two letter designate. You wouldn't send C-o-r-t-l-a-n-d-t M-a-n-o-r dah-dah-dit-dit-dah-dah ***(for comma)*** N-Y... but simply just N-Y. Much better!

There are lots of little techniques like this. All you need is experience and good mileage on the air! You will learn all sorts of wonderful tricks to make yourself sound polished and admirable on the air. Go for it!

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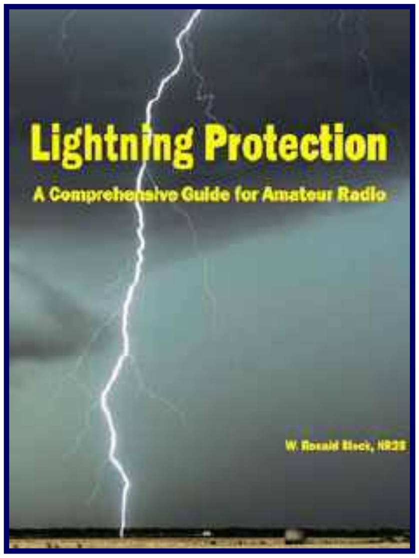
Subscribe for free at : https://www.k9ya.org

Lightning Protection :
A Comprehensive Guide for Amateur Radio
Author : W. Ronald Block, NR2B
Contact : ron@wrblock.com
Website : www.wrblock.com



Gloucester County Amateur Radio Club
General Membership Meeting Minutes
Wednesday, September 4, 2024

Meeting opened @ 1900 Hours by President Jon Pearce, WB2MNF with the Pledge of Allegiance to the Flag

ATTENDANCE :

- **In-person : 42**
- **Via Zoom : 13**

VISITORS : Craig Metzger, Vineland, NJ

NEW MEMBERS :

- **Jonathan Davidson KE2DYD Gibbstown, NJ**
- **Jack Berghof Jr., Vineland, NJ**

ANNOUNCEMENTS :

- **Ron Block NR2B** Hamfest Chairman pro tem
- Get well wishes to **Sheldon Parker K2MEN**
- January 2025 GM meeting moved to Wednesday, January 8, 2025 due to New Year's holiday.

UPCOMING EVENTS :

- Hamfest this weekend (9/8/24) at Gloucester County 4-H Fairgrounds
- Tech Saturday 9/7/24 - "Operating and Experimenting with SDR radios"
- License Classes start 9/9/24
- Board of Directors Meeting 9/18/24
- Bike MS City to Shore Ride 9/28-29/24
- Dinner at the W2MMD Clubhouse 9/25/24

BUSINESS MEETING :

- Minutes of August 2024 business meeting as published in Crosstalk were approved by voice vote of members present.

TREASURER'S REPORT :

2024 Operating Profit and Loss

- **Operating Revenue : $14,520.80**
- **Operating Expenses : $6,816.25**
- **Net Operating Income : $7,704.55**

Remarks : Treasurer's report approved by voice vote of members present.

GLOUCESTER COUNTY AMATEUR RADIO FOUNDATION :

- Report : GCARF funded the purchase of an EME dish antenna for 1296 MHz.

September 2024 General Membership Meeting Minutes - Continued on page 44

September 2024 General Membership Meeting Minutes - Continued from page 43

CLUBHOUSE REPORT :

- Might need to file extension for tower building permits with the township.

DX AND CONTESTS :

- NJ QSO Party 9/21/24. **Tony Starr K3TS** reported on contests for September, detailed list in CrossTalk.

PUBLIC SERVICE :

- **Bob Keogh KD2NEC** reported on the 10/5/24 Simulated Emergency Test.
- **Jon Pearce WB2MNF** discussed supporting the Bike MS City To Shore Ride.

EDUCATION COMMITTEE :

- **Chris Prioli AD2CS** discussed the next round of license classes.
- Will be doing 2 per year, Spring and Fall.

TECHNICAL COMMITTEE :

- Balloon Launch 8/24/24, max altitude 35,000 ft. Lost telemetry after several hours, balloon assumed lost.
- Next launch will test using telemetry on 10m and new solar cells.
- Balloon launches tentatively at the Hamfest on 9/8/24 and Woodruff School on 9/15/24.

OLD BUSINESS :

- **Ron Block NR2B** provided update on Hamfest preparations.
- Clubhouse internet upgrade completed.

NEW BUSINESS : None

PRESENTATION : VHF Propagation and W2MMD Repeater Coverage Modeling **- Norman Coltri, K2NRC**

Meeting adjourned @ 2000 Hours

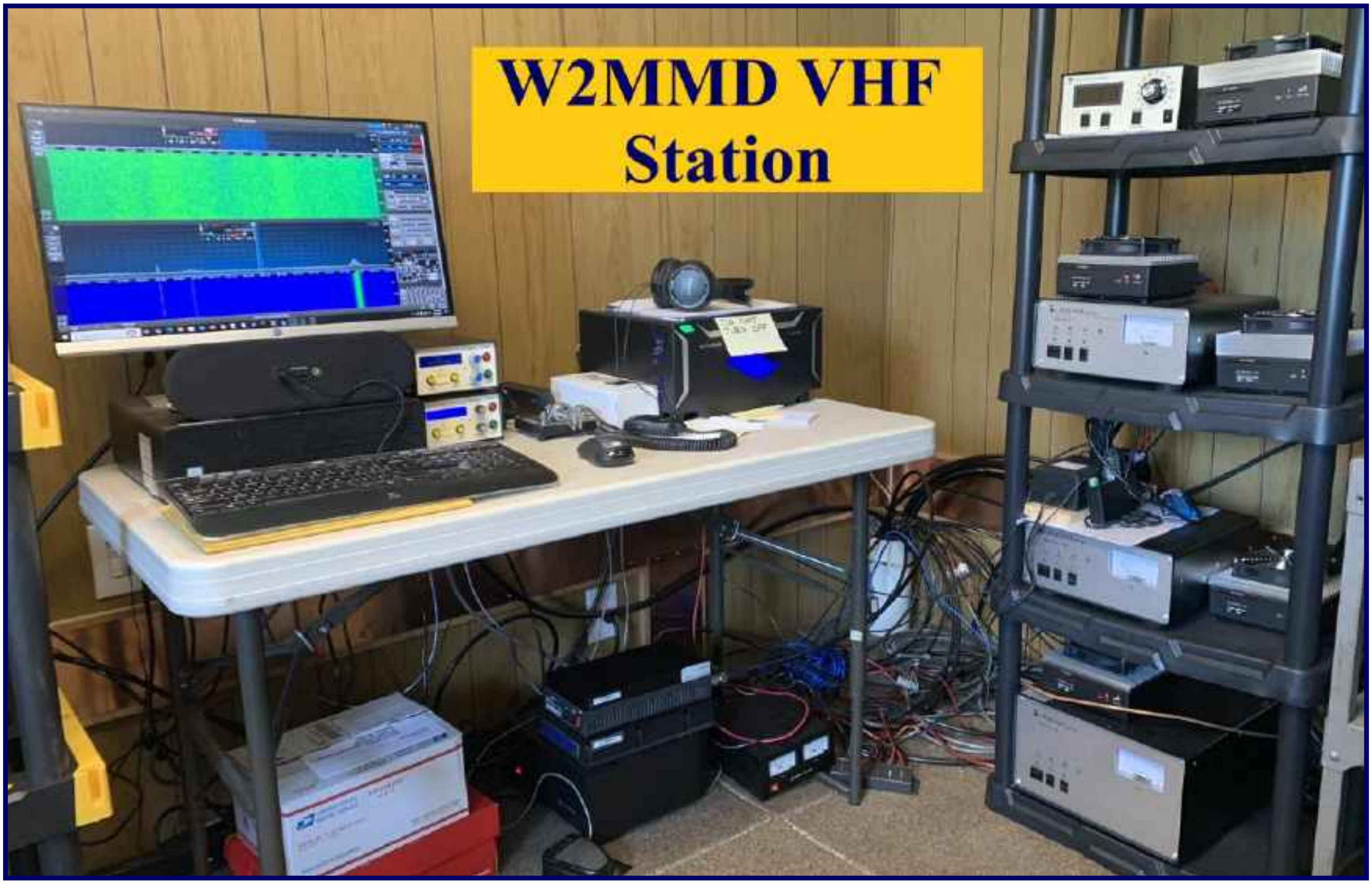
Respectfully submitted,
John Zaruba Jr, K2ZA,
Recording Secretary

Tuesday & Thursday Nights 10M Rag Chew Net @ 1930 Hours
28.465 MHz or 28.475 MHz

Club Merchandise from the K2ZA Workshop
Contact John Zaruba Jr, K2ZA at k2za@icloud.com
Go To : https://gloucestercountyarc.weebly.com/club-merchandise.html

Another FREE Clubhouse Resource Available To All Club Members

Training May Be Required : See Jon Pearce, WB2MNF For Details

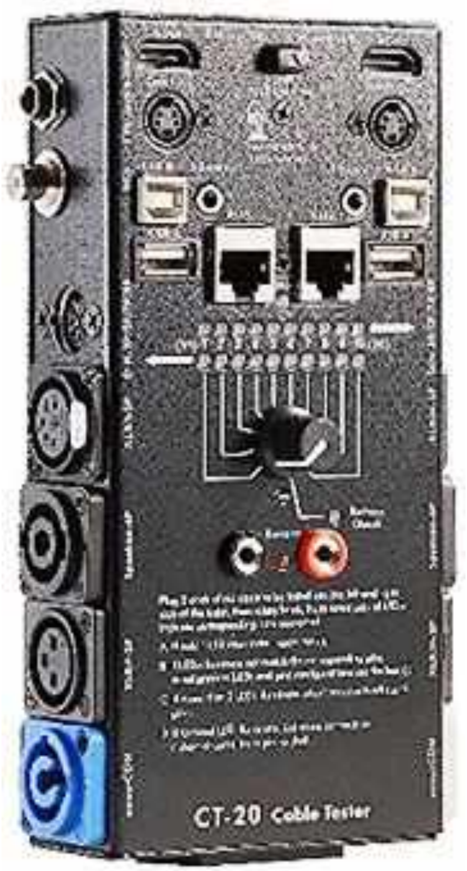


Wednesday, October 2, 2024

Friday, October 11, 2024

Electronic Tool Tip #9 - Multifunction Cable Tester

By Chris Prioli, AD2CS - chris@ad2cs.com - www.ad2cs.com



Every now and then, I come across an idea that is so good that I wish that it had been my idea in the first place. In this case, I had been looking to build just such a tester as the one discussed here, but I realized that I could not do the job nearly as well as the manufacturer of this device did it without breaking the bank on the project.

I was looking to build a cable tester that could test multiple configurations of cables, regardless of what connector types were on the opposite ends of the cable. In other words, I wanted to be able to test a cable that had, for example, a 6.35mm TRS plug on one end and an XLR connector on the other, or maybe, a 3.5mm TRS plug on one end and a 6.35mm TRS plug on the other end. Whatever the arrangement, I wanted it to be seamless, and to test and report on a wire-by-wire basis when I had continuity and if I had wire-to-wire shorts or wire-to-shell shorts. While this tool does not test ***all*** possible cable types, it does test enough of them to merit a place on my workbench. It is much easier and quicker to test with this tool than with an ohmmeter or continuity tester.

The ***CT-20 Cable Tester*** from ***MFL*** does an amazing job for the cost of the unit. It has the ability to test cables having connectors including 3.5mm TRS, 6.35mm TRS, 3-pin XLR, 5-pin XLR, RCA, 3-pin DIN, 5-pin DIN, 7-pin DIN, 8-pin DIN, mini 4-pin DIN (S-video), 4-pin Speakon, powerCON, RJ-45, HDMI, USB-A, USB-B, micro-USB, and/or banana plugs, in any combination of connectors on a given cable. The unit is powered by a single 9V “transistor radio” snap-top battery. A battery test function is available on the front panel via the main rotary control.

That rotary control on the front panel steps through each wire of a given cable, indicating continuity by an illuminated LED. Additional LED’s lit indicate a short to that wire or to GND (shell). Pins 11 through 20 of an HDMI cable are tested by use of a momentary switch that is held down while stepping through those pins, after the first ten pins have been tested. A chart on the back panel of the tester shows the wire connections for the various plug types.

Sure… the device has its limitations. For example, it does not test USB-C or some of the other USB appliance connector variations. I am currently looking for an easy way to add some of those connector types to the unit, but no promises yet on that score. But… for what the unit cost to purchase, it does a creditable and convincing job on the cables that it will test.

This tester is available online from Amazon, at a price of $60.99 (USD) plus shipping if you are not an Amazon Prime member. Of course, the governor has to get his share, so tax will also be applied.

Go to **https://www.amazon.com/gp/product/B0972J2ZR9** to investigate this item for yourself. NOTE: At the time that this was written, Amazon showed “out of stock” on this item, but they have since gotten it back into their inventory. Meanwhile, AliExpress also offered this item, if you don’t mind doing business with them. I have had some good luck the few times that I bought from AliExpress, so I am not absolutely opposed to buying from them again. Just Google “CT-20 cable tester” and it should come up.

Gloucester County Amateur Radio Club
Board of Directors Meeting Minutes
Wednesday, September 18, 2024

Meeting opened @ 1900 Hours by President Jon Pearce, WB2MNF

Attendance :

- **President Jon Pearce, WB2MNF : Present**
- **Vice President Ron Block, NR2B : Present**
- **Treasurer John O'Connell, K2QA : ZOOM**
- **Recording Secretary John Zaruba Jr, K2ZA : Present**
- **Corresponding Secretary Mike Resnick, N2WOQ : Present**
- **Director (2022-2024) Jeffrey Garth, WB2ZBN : Present**
- **Director (2022-2024) Frank Romeo, N3PUU : ZOOM**
- **Director (2023-2025) Chris Prioli, AD2CS : Present**
- **Director (2023-2025) James Wright, N2GXJ : ZOOM**
- **Director (2024-2026) Al Arrison, KB2AYU : Present**
- Director (2024-2026) Bill Price, NJ2S :
- Trustee (2021-2024) Carl Wittig, N2CRW
- Trustee (2022-2025) Charles Lanard, KD2EIB
- **Trustee (2023-2026) Sheldon Parker, K2MEN : Present**
- Trustee (2024-2027) Len Rust, W2LJR

Previous Minutes : Approved by voice vote of Club Officers present.

NEW MEMBER APPLICATIONS :

- **Joseph Albanese, KE2DYX, Sewell, NJ**
- **Scott Dantis, AA2SD, Berlin, NJ**
- **Michael Dornisch, KD2IFY, Blackwood, NJ**
- **Matthew Duffield, KE2ECE, Woodbury, NJ**
- **James Griggs, KE2COX, Pine Hill, NJ**
- **Josiah Jarvis, KE2BRD, Williamstown, NJ**
- **Paul Johnston, KC3VTI, Smyrna, DE**
- **Conor McCaffrey, KD2KJX, Pennsauken, NJ**
- **Dennis McManus, W3IMA, Pennsville, NJ**
- **Craig Metzger, Vineland, NJ**
- **Paul Pasternak, N3FTO, Glassboro, NJ**
- **Rev. Fr. Jacek Stefanski, N2FCH, Cherry Hill, NJ & Wigry, Poland**

Motion to approve dues waiver for Micah Jarvis Associate Membership passed by voice vote of officers present.

TREASURER'S REPORT :

- **Income : $21,716.80**
- **Expense : $8,431.16**
- **Net : $13,285.64**

September 2024 Board of Directors Meeting Minutes - Continued on page 48

September 2024 Board of Directors Meeting Minutes - Continued from page 47

Detailed financial statements are available for member review upon request.

Treasurer presented a detailed hamfest financial report.

Motion to approve treasurer's report passed by voice vote of officers present.

CLUBHOUSE REPORT :

- **Al Arrison, KB2AYU** reported Clubhouse in good shape.
- **Frank Romeo, N3PUU** reported the tower base dig scheduled for the 10/12 with a rain date of the 10/19.
- Discussion of rental heavy equipment needs.

HAMFEST :

- **Jon Pearce, WB2MNF** and **Ron Block, NR2B** provided detailed summary of attendance and feedback from attendees.
- **Sheldon Parker, K2MEN** thanked everyone who stepped up to get things done during his recent illness.

PROGRAMS & ACTIVITIES COMMITTEE :

- **Jon Pearce, WB2MNF** discussed Tech Saturday Forum Programs.

EDUCATION COMMITTEE :

- **Chris Prioli, AD2CS** reported on the license class 6 Technician, 7 General students.
- STEM session with Woodland School starts 9/23

NETS :

- **2 Meter Net : August 2024 - Tuesday Average : 7 Check-ins, Thursday Average : 9.8 Check-ins**
- **10 Meter Net : Tuesdays and Thursdays at 1930 Hours**
- **40 Meter Net : Mondays and Thursdays at 1930 Hours**

NEW BUSINESS :

- Discussion of Holiday Party logistics.
- Discussion of mechanism for making a donation to the GCARC Foundation.
- Discussion of deceased Milt Goldman awardees plaque disposition and display of same.

Meeting adjourned @ 2010 Hours

Respectfully Submitted,
John Zaruba Jr, K2ZA,
Recording Secretary

> ***"Ask not what your Club can do for you,***
> ***Ask what you can do for your Club"***
> ***- KA2OSV***

To Be Added To The DX HONOR ROLL,
Please contact Ernest Kraus, KD2EAV
meanddelcanotc@verizon.net

GLOUCESTER COUNTY
AMATEUR·RADIO·CLUB
DX HONOR ROLL
NEW JERSEY

Thursday, October 31, 2024

Name/Callsign	DXCC
Bill Grim, W0MHK	352
Dave Strout, W2YC	349
Edward De Fonzo, W2DE	339
Darrell Neron, AB2E	336
Bob Pantazes, W2ARP	290
John Hill, W2HUV	271
Vinnie Sallustio, N4NYY	268
Gary Castellini, N2IEC	264
Sheldon Parker, K2MEN	256
Ken Denson, WB2P	248
Jim Wright, N2GXJ	248
Tony Starr, K3TS	242
Dennis Sandole, K2SE	231
Howard Marder, WA2IBZ	155
Art Strong, KA0WS	154
Eric Morris, N2BRJ	148
Steve Farney, W2SEF	147
Phil Nunzio, WA3RGY	144
Rich Subers, W2RHS	140
Bart Kleczynski, AC2PT	124
Marc Federici, WM2Y	117
Ben Johnson, NE2R (WB2GUK)	116
Chuck Capasso, WB2PGE	104
Harry Strahlendorf Jr, W3DNQ	103
Jim Clark, KA2OSV	87
Lee Marino, N2LAM	71
Updated As Of 09/18/2024	

Hmm...It's Saturday and you want to know if someone is at the Clubhouse? Why not call and find out! What!!!

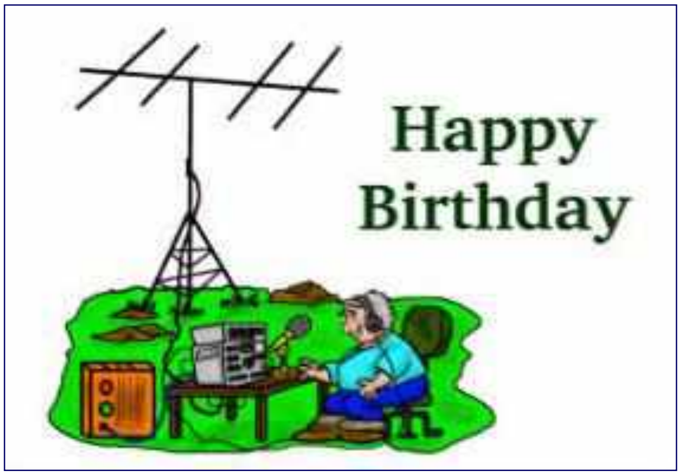
W2MMD Clubhouse : (856) 244-6914

(Please, no free solar panel calls!)

October Birthdays

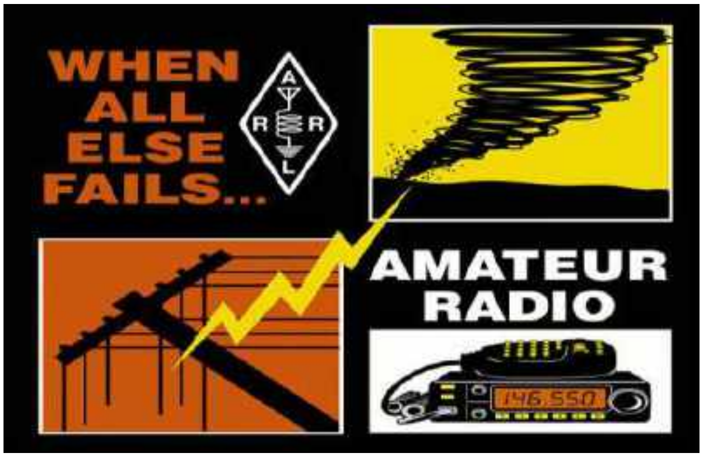
Congratulations To Our Members Who Are Celebrating A Birthday This Month

Jerry Barnish, K2EAB
Rick Bleda Jr, KC2SGR
Harry Bryant, AA2WN
Jim Clark Sr, KA2OSV (President 2019, 2020)
Mary Delemarre, W2TDS
Harry Elwell IV, AD5TT (President 2017, 2018)
Harry Eshleman Jr, KE2DQA
Dave Kappler, N3DRK
Bill Kardas, N2BK
Jim Lamanteer Jr, WB2KNR
Dave Mitchell, WB2PJH
Bill Mollenhauer, N2FZ
Alex Rodriguez, N5MG
Dennis Sandole, K2SE
Dave Swartout, KC3TGB



In Memoriam : October Birthdays

Rose Ellen Bills, N2RE (President 1980)
Stephen Blasko Sr, W2TDS
Emil Busko Sr, WB2EOR
Paul Callaghan Jr, WB4FVY (President 1970)
Diane Direnzo, KB2RHL
James Doms, N2ATC
Keith Drake Sr, KB2YBR
Raymond Falk, N2ASX
George Gogstad, KB2GTM
Howard Hirst Jr, K2QGH
Robert Houck Jr, K2JOL
James Klupar, KB8WX
Edmund Kwiatkowski, K2QOK
Neil Nickerson Sr, K2NRN
Mario Nicosia, WB3KAG
Lewis Parker, N2LZS
Albert Roche, K2HHJ (Charter Member)
Michael Scanzello
John Stull Jr, N2SI (President 1972)
Preston Weil, WA2TSZ
John Zaruba Sr, K2ZA



So you find our website confusing, can't find anything, Well So Do I!!

I have created a page *(What, Not Another Page!!)* called "Quick Links"

**On this page you will find "Buttons" to some the most popular pages
I will add more as time goes on, but I hope this helps your journey navigating through your Club Website!
https://gloucestercountyarc.weebly.com/quick-links.html**

ARRL DX Contest, SSB 2024
March 2, 2024

Call : AB2E
Operator (s) : AB2E
Station : AB2E

Class : SOUAB HP
QTH : SNJ
Operating Time (hrs) : 33.5
Location : USA

Summary :

Band	QSOs	Mults
160 :	11	10
80 :	139	57
40 :	143	72
20 :	388	93
15 :	498	103
10 :	871	108
Total :	2,050	443

Total Score : 2,724,450

Club : Frankford Radio Club **35**

Comments :

Rig : FTDX-9000D/OM Power 2000A+
Antennas :
160m Inverted-L +HiZ4-RX array
75m - dipole
40m - dipole
20/15/10 C3S Force 12 tribander @ 52ft

Op time: 33.5 hours

Wow, what phenomenal conditions for most of the weekend. First 24hours were amazing, and what a joy to have 10m the band with the most QSOs for a change (almost 900)! Weekend DXCC easily achieved on 10m & 15m, did not quite make it on 20. Fri night I picked up a few mults on 160 but it was generally my toughest band. This is my highest score from home ever for this contest. No breaks the first night except for a 1hr nap around 0900UTC. By Sat evening, it was really slow, having already worked most of the available mults. By 0700UTC Sun it was decided to get some rest and start fresh at 1100UTC which was a good strategy. Caught 10m as it opened up, and had a 300 QSO run the first 2.5hours there Sun morning, but remained on until mid-afternoon.

Great moment - about 5min before the end of the contest I broke a huge pileup to work J88IH for a final new mult, boosting my score by almost 9K points in the process!

I cracked 1meg by Sat morning around 9AM, the earliest I have ever done that in this contest. My other goals were achieved, to make at least 2meg, and make at least 2000QSOs.

73
Darrell AB2E

ARRL DX Contest, SSB 2024
March 2, 2024

Call : K3TS
Operator (s) : K3TS
Station : K3TS

Class : SOUAB HP
QTH : SNJ
Operating Time (hrs) : 19
Location : USA

Summary :

Band	QSOs	Mults
160 :	0	0
80 :	36	32
40 :	88	57
20 :	144	78
15 :	252	92
10 :	545	104
Total :	1,065	363

Total Score : 1,159,785

Club : Frankford Radio Club **36**

Comments :

Another part-time effort, due to our upcoming move, but another good effort, thanks to great propagation with low local noise levels. This will be the last contest from my SNJ QTH, which has been active since 2016, and has logged about 70,000 QSO's. I have already started taking down some antennas, and the tower is coming down on March 9th. Looking forward to getting settled in a new QTH, and putting it all back up, hopefully in time for CQWW in the fall! Thanks to all the DX for the Q's and Mults, and hope to see you all in the next one. 73 de K3TS

For more information about the ARRL DX Contest,
Contact Jenny at 867-5309

Contest : ARRLDXSSB

Band	QSOs	Pts	Cty	Pt/Q
1.8	11	33	10	3.0
3.5	139	417	57	3.0
7	143	429	72	3.0
14	388	1,164	93	3.0
21	498	1,494	103	3.0
28	871	2,613	108	3.0
Total	2,050	6,150	443	3.0

Score : 2,724,450
1 Mult = 4.6 Q's

ARRL DX Contest, SSB 2024
March 2, 2024

Call : WB2PJH
Operator (s) : WB2PJH
Station : WB2PJH

Class : SOUAB HP
QTH :
Operating Time (hrs) : 23
Location : USA

Summary :

Band	QSOs	Mults
80 :	5	4
40 :	93	58
20 :	201	72
15 :	252	80
10 :	284	77
Total :	835	291

Total Score : 728,955

Club : Frankford Radio Club 37

Comments :
Great conditions. Had fun.

Idaho QSO Party 2024
March 9, 2024

Call : WB2PJH
Operator (s) : WB2PJH
Station : WB2PJH

Class : SOABCW LP
QTH :
Operating Time (hrs) : 4
Location : Out of State/Province

Summary :

Band	CW Qs	Ph Qs	Dig Qs
20 :	14		

Total : 14 CW Mults : 10 Ph Mults : 0 Dig Mults : 0
Total Score : 140

Club : Frankford Radio Club 41

K1USN Slow Speed Test 2024
March 8, 2024

Call : W2TEF
Operator (s) : W2TEF
Station : W2TEF

Class : Single Op QRP
QTH : Glassboro NJ
Operating Time (hrs) : 1

Summary :

Band	QSOs	Mults
40 :	3	3
20 :	3	2
Total :	6	5

Total Score : 30

Club : Frankford Radio Club 39

South America 10 Meter Contest 2024
March 9, 2024

Call : AB2E
Operator (s) : AB2E
Station : AB2E

Class : SO CW HP
QTH : 05
Operating Time (hrs) : 2
Location : USA

Summary :

Band	QSOs	Prefixes	Zones
CW :	41	27	6
SSB :	0	0	0
Total :	41	27	6

Total Score : 5,280

Club : CWJF-Grupo Juizforano de CW 40

Comments :
Giving out points to my friends in SA. CWJF Member #935
73 Darrell AB2E

Contest : SA10_DX

Band	QSOs	Pts	Pfx	CQ	Pt/Q
28	41	160	27	6	3.9
Total	41	160	27	6	3.9

Score: 5,280
1 Mult = 1.2 Q's

Red Rose Repeater Association

147.015 449.575

Lancaster, PA W3RRR.org

ARRL AFFILIATED CLUB

HAMFEST

Saturday October 5th, 2024

Vendor Set Up 6:00 am Gates Open 8:00 am

General Admission $5 Tailgating $7 Indoor table $10

DXCC, WAS, VUCC and WAC
QSL Card Checking
by:N3WD

Presentation at 9:00 am
"QSL cards and how the bureau works"

VE testing to begin promptly at 10:00

Tailgating / Food / Door Prizes / VE Testing

LOCATION: 339 E. Main Street New Holland Pa 17557

The 32nd Annual

Nutmeg Hamfest

and ARRL Connecticut State Convention

Sponsored by the Meriden Amateur Radio Club, Inc.

Sunday Oct 13th, 2024 8AM – 2PM

Great New Location!
Maloney High School
121 Gravel St, Meriden, CT 06450
Many great door prizes!

Free Parking — Food — Major Vendors — Loads of Tailgating
Less Than 2 hrs from NYC, LI, NJ, NEPA, Boston, Albany. Seconds from I-91

Live GOTA Station and Go-Box Display/Competition
It's worth the trip — this should be peak fall foliage time, too.

Our Featured Speakers and Activities:

ARRL Forum — Fred AB1OC, New England ARRL Div Dir;
Douglas, WA1SFH, ARRL CT SM;
and Mike W8ZY, ARRL Field Services Mgr.

Several Great Presentations — Including
The CT POTA Activators — Shawn, KC1NQE

Selling Space and Tickets:
Inside Vendor Setup and Tailgating at 6am
Building opens to the public @ 8:00AM
INSIDE: $25.00 ($20.00 until 9/21) 6 ft table & chair
OUTSIDE: $15.00 One outdoor tailgate space
GENERAL ADMISSION: $10.00 Children under 12 Free

Vendors Contact: John Bee, N1GNV
jbee@qsradio.com
47-7 Billard St, Meriden, CT 06451
Phone: (203) 440-4973 days

Major Vendors in 2024 Include:

Quicksilver Radio Products
KJI Electronics
Gold Medal Ideas
Hamsource

VE Testing info: Jim Savage, N1ZN
N1ZN@arrl.net
Meriden ARC/Nutmeg Hamfest
POB 583, Meriden, CT 06450

www.nutmeghamfest.com
E-mail: nutfest@qsradio.com

SAME LOCATION ! ! !

HAMFEST 2.0

RF HILL AMATEUR RADIO CLUB

Admission
$8.00

SUNDAY, OCTOBER 20, 2024

RAIN OR SHINE

Talk-in
145.31-
PL 131.8

AT THE UPPER COUNTY CAMPUS OF THE BUCKS COUNTY COMMUNITY COLLEGE

Blooming Glen Road, Perkasie, PA 18944

GPS Coordinates: Latitude 40° 22′ 53″ N, Longitude 75° 16′ 31.8″ W

Gates are open 7:00 AM to 1:00 PM for the General Public

Opens - 6:00 AM for vendors • NO OVERNIGHT PARKING at the College

- **FREE PARKING !!!** **NO EARLY BIRDS!!!**
- Vendor spaces – Spaces DO NOT include admission.
  OUTDOOR: approx. 9’ frontage, first come, first served on Sunday - $10 / space.
- VE testing: Inside. Begins at 10:00 AM sharp. *Bring ID and FRN! Fee $15.00*
- Food available
- Door Prizes drawn throughout the day (Must be present to Win)

Ham Equipment, Computer Hardware and Software flea market

For Hamfest information contact:

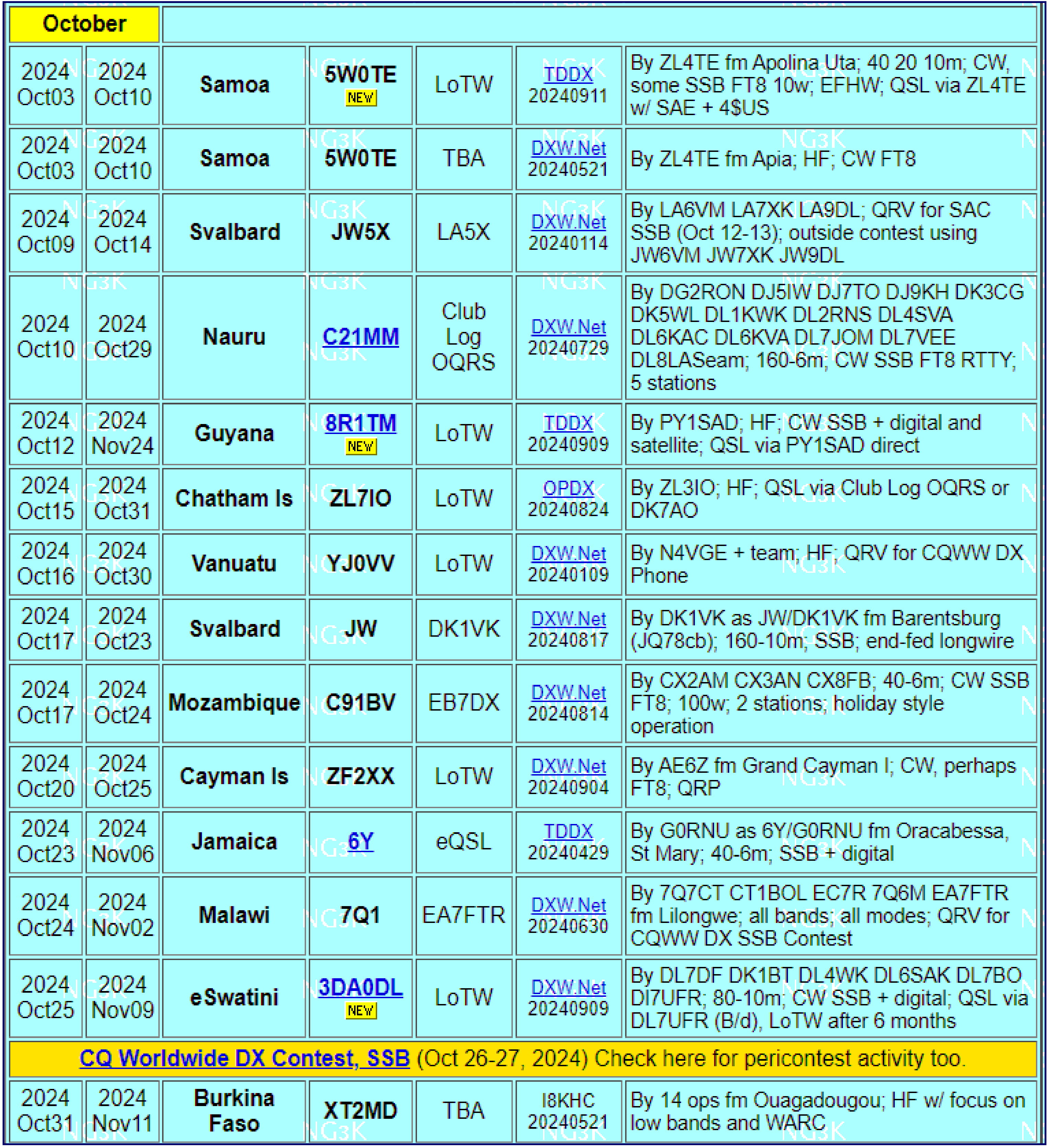
John Morrell, KB3EWV

215-399-7685

Email: rfhillarc@yahoo.com

Club website: www.rfhillarc.club

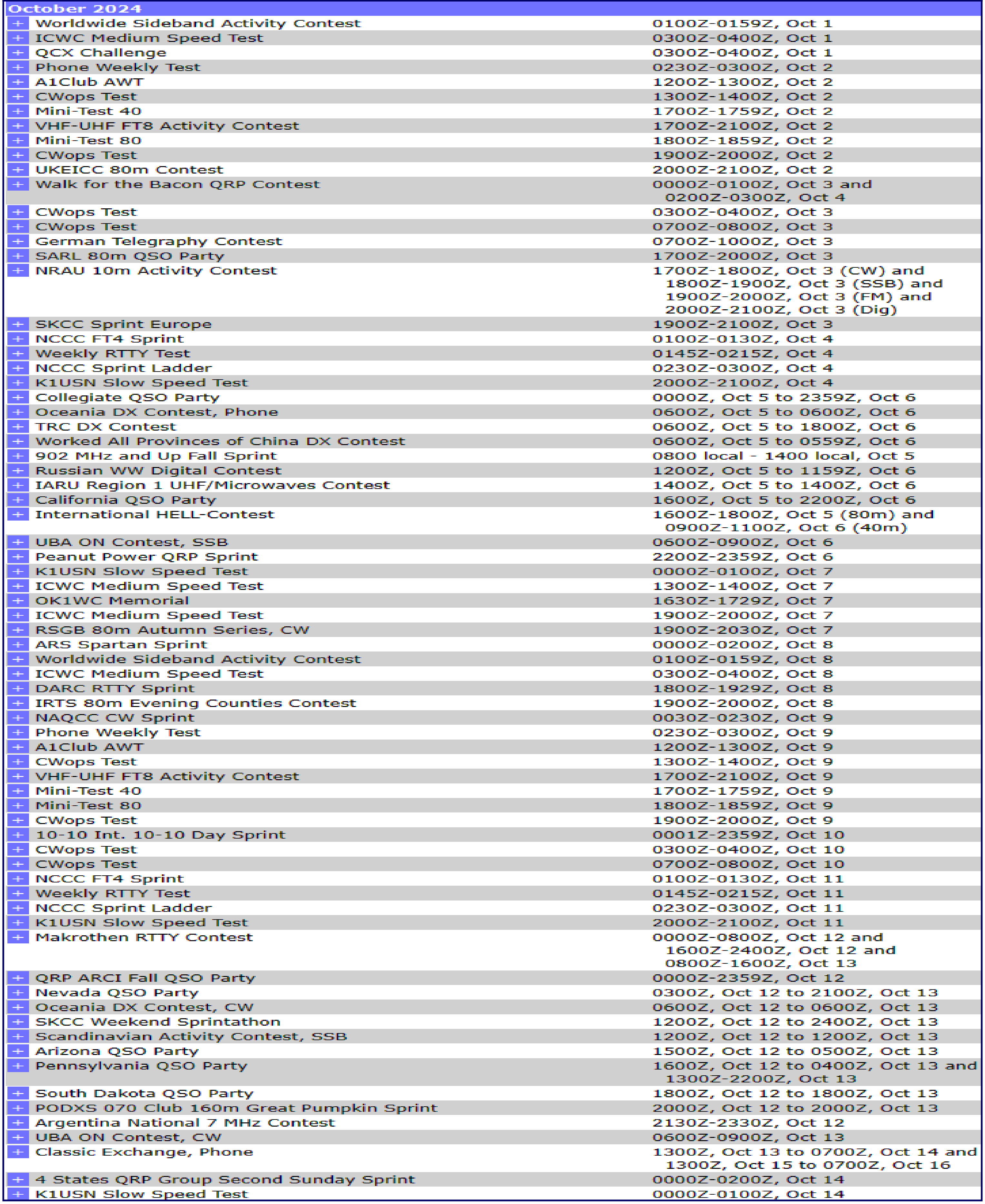
Announced DX Operations
www.ng3k.com/Misc/adxo.html
From The Shack of Bill Feidt, NG3K : www.ng3k.com



October						
2024 Oct03	2024 Oct10	**Samoa**	**5W0TE** NEW	LoTW	TDDX 20240911	By ZL4TE fm Apolina Uta; 40 20 10m; CW, some SSB FT8 10w; EFHW; QSL via ZL4TE w/ SAE + 4$US
2024 Oct03	2024 Oct10	**Samoa**	**5W0TE**	TBA	DXW.Net 20240521	By ZL4TE fm Apia; HF; CW FT8
2024 Oct09	2024 Oct14	**Svalbard**	**JW5X**	LA5X	DXW.Net 20240114	By LA6VM LA7XK LA9DL; QRV for SAC SSB (Oct 12-13); outside contest using JW6VM JW7XK JW9DL
2024 Oct10	2024 Oct29	**Nauru**	**C21MM**	Club Log OQRS	DXW.Net 20240729	By DG2RON DJ5IW DJ7TO DJ9KH DK3CG DK5WL DL1KWK DL2RNS DL4SVA DL6KAC DL6KVA DL7JOM DL7VEE DL8LASeam; 160-6m; CW SSB FT8 RTTY; 5 stations
2024 Oct12	2024 Nov24	**Guyana**	**8R1TM** NEW	LoTW	TDDX 20240909	By PY1SAD; HF; CW SSB + digital and satellite; QSL via PY1SAD direct
2024 Oct15	2024 Oct31	**Chatham Is**	**ZL7IO**	LoTW	OPDX 20240824	By ZL3IO; HF; QSL via Club Log OQRS or DK7AO
2024 Oct16	2024 Oct30	**Vanuatu**	**YJ0VV**	LoTW	DXW.Net 20240109	By N4VGE + team; HF; QRV for CQWW DX Phone
2024 Oct17	2024 Oct23	**Svalbard**	**JW**	DK1VK	DXW.Net 20240817	By DK1VK as JW/DK1VK fm Barentsburg (JQ78cb); 160-10m; SSB; end-fed longwire
2024 Oct17	2024 Oct24	**Mozambique**	**C91BV**	EB7DX	DXW.Net 20240814	By CX2AM CX3AN CX8FB; 40-6m; CW SSB FT8; 100w; 2 stations; holiday style operation
2024 Oct20	2024 Oct25	**Cayman Is**	**ZF2XX**	LoTW	DXW.Net 20240904	By AE6Z fm Grand Cayman I; CW, perhaps FT8; QRP
2024 Oct23	2024 Nov06	**Jamaica**	**6Y**	eQSL	TDDX 20240429	By G0RNU as 6Y/G0RNU fm Oracabessa, St Mary; 40-6m; SSB + digital
2024 Oct24	2024 Nov02	**Malawi**	**7Q1**	EA7FTR	DXW.Net 20240630	By 7Q7CT CT1BOL EC7R 7Q6M EA7FTR fm Lilongwe; all bands; all modes; QRV for CQWW DX SSB Contest
2024 Oct25	2024 Nov09	**eSwatini**	**3DA0DL** NEW	LoTW	DXW.Net 20240909	By DL7DF DK1BT DL4WK DL6SAK DL7BO DI7UFR; 80-10m; CW SSB + digital; QSL via DL7UFR (B/d), LoTW after 6 months
CQ Worldwide DX Contest, SSB (Oct 26-27, 2024) Check here for pericontest activity too.						
2024 Oct31	2024 Nov11	**Burkina Faso**	**XT2MD**	TBA	I8KHC 20240521	By 14 ops fm Ouagadougou; HF w/ focus on low bands and WARC

Also for your convenience, there is a direct link to NG3K on our website. Click on the NG3K DX Page.

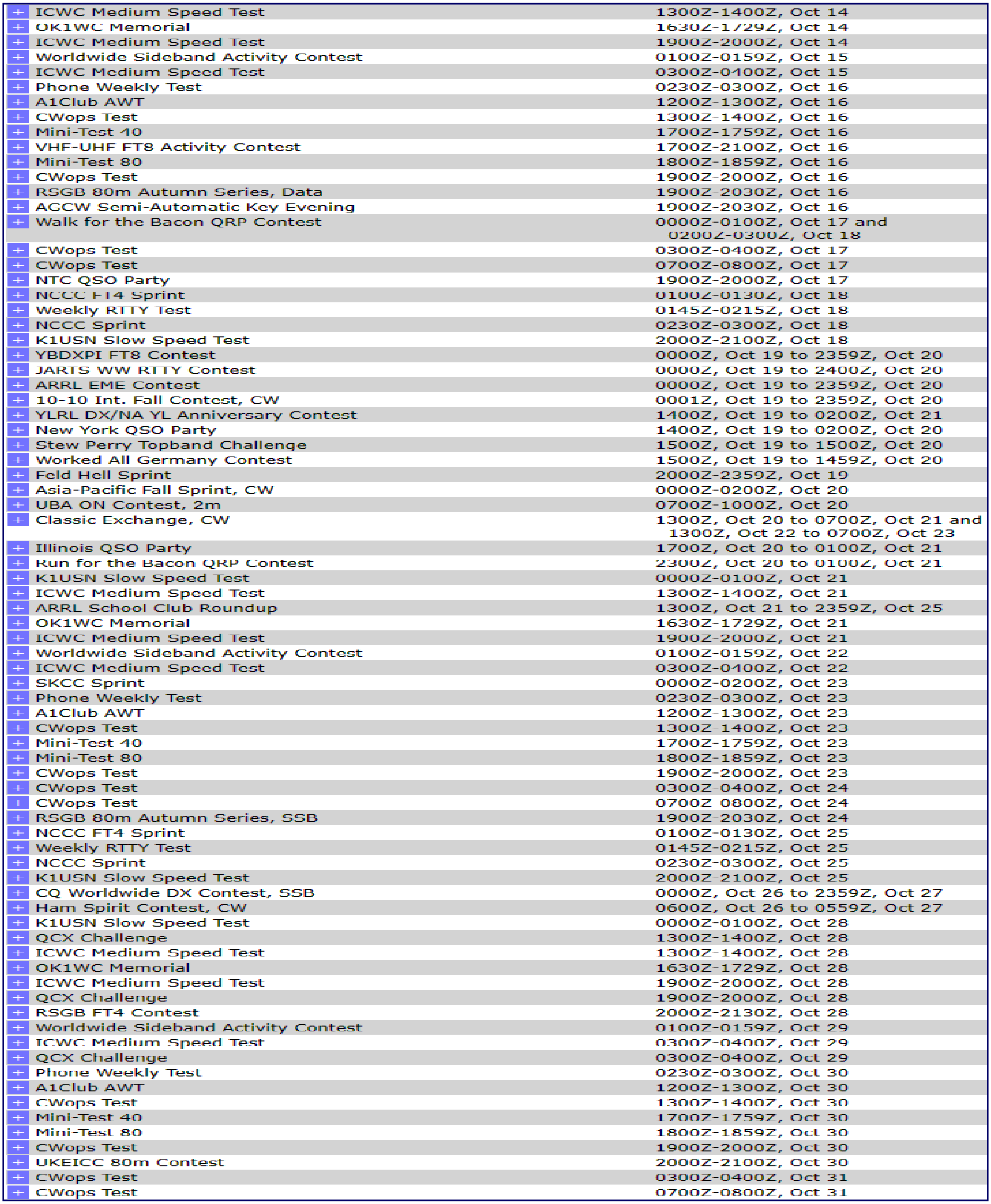
October 2024 Contest Calendar - WA7BNM Contest Calendar : www.contestcalendar.com



October 2024		
+	Worldwide Sideband Activity Contest	0100Z-0159Z, Oct 1
+	ICWC Medium Speed Test	0300Z-0400Z, Oct 1
+	QCX Challenge	0300Z-0400Z, Oct 1
+	Phone Weekly Test	0230Z-0300Z, Oct 2
+	A1Club AWT	1200Z-1300Z, Oct 2
+	CWops Test	1300Z-1400Z, Oct 2
+	Mini-Test 40	1700Z-1759Z, Oct 2
+	VHF-UHF FT8 Activity Contest	1700Z-2100Z, Oct 2
+	Mini-Test 80	1800Z-1859Z, Oct 2
+	CWops Test	1900Z-2000Z, Oct 2
+	UKEICC 80m Contest	2000Z-2100Z, Oct 2
+	Walk for the Bacon QRP Contest	0000Z-0100Z, Oct 3 and 0200Z-0300Z, Oct 4
+	CWops Test	0300Z-0400Z, Oct 3
+	CWops Test	0700Z-0800Z, Oct 3
+	German Telegraphy Contest	0700Z-1000Z, Oct 3
+	SARL 80m QSO Party	1700Z-2000Z, Oct 3
+	NRAU 10m Activity Contest	1700Z-1800Z, Oct 3 (CW) and 1800Z-1900Z, Oct 3 (SSB) and 1900Z-2000Z, Oct 3 (FM) and 2000Z-2100Z, Oct 3 (Dig)
+	SKCC Sprint Europe	1900Z-2100Z, Oct 3
+	NCCC FT4 Sprint	0100Z-0130Z, Oct 4
+	Weekly RTTY Test	0145Z-0215Z, Oct 4
+	NCCC Sprint Ladder	0230Z-0300Z, Oct 4
+	K1USN Slow Speed Test	2000Z-2100Z, Oct 4
+	Collegiate QSO Party	0000Z, Oct 5 to 2359Z, Oct 6
+	Oceania DX Contest, Phone	0600Z, Oct 5 to 0600Z, Oct 6
+	TRC DX Contest	0600Z, Oct 5 to 1800Z, Oct 6
+	Worked All Provinces of China DX Contest	0600Z, Oct 5 to 0559Z, Oct 6
+	902 MHz and Up Fall Sprint	0800 local - 1400 local, Oct 5
+	Russian WW Digital Contest	1200Z, Oct 5 to 1159Z, Oct 6
+	IARU Region 1 UHF/Microwaves Contest	1400Z, Oct 5 to 1400Z, Oct 6
+	California QSO Party	1600Z, Oct 5 to 2200Z, Oct 6
+	International HELL-Contest	1600Z-1800Z, Oct 5 (80m) and 0900Z-1100Z, Oct 6 (40m)
+	UBA ON Contest, SSB	0600Z-0900Z, Oct 6
+	Peanut Power QRP Sprint	2200Z-2359Z, Oct 6
+	K1USN Slow Speed Test	0000Z-0100Z, Oct 7
+	ICWC Medium Speed Test	1300Z-1400Z, Oct 7
+	OK1WC Memorial	1630Z-1729Z, Oct 7
+	ICWC Medium Speed Test	1900Z-2000Z, Oct 7
+	RSGB 80m Autumn Series, CW	1900Z-2030Z, Oct 7
+	ARS Spartan Sprint	0000Z-0200Z, Oct 8
+	Worldwide Sideband Activity Contest	0100Z-0159Z, Oct 8
+	ICWC Medium Speed Test	0300Z-0400Z, Oct 8
+	DARC RTTY Sprint	1800Z-1929Z, Oct 8
+	IRTS 80m Evening Counties Contest	1900Z-2000Z, Oct 8
+	NAQCC CW Sprint	0030Z-0230Z, Oct 9
+	Phone Weekly Test	0230Z-0300Z, Oct 9
+	A1Club AWT	1200Z-1300Z, Oct 9
+	CWops Test	1300Z-1400Z, Oct 9
+	VHF-UHF FT8 Activity Contest	1700Z-2100Z, Oct 9
+	Mini-Test 40	1700Z-1759Z, Oct 9
+	Mini-Test 80	1800Z-1859Z, Oct 9
+	CWops Test	1900Z-2000Z, Oct 9
+	10-10 Int. 10-10 Day Sprint	0001Z-2359Z, Oct 10
+	CWops Test	0300Z-0400Z, Oct 10
+	CWops Test	0700Z-0800Z, Oct 10
+	NCCC FT4 Sprint	0100Z-0130Z, Oct 11
+	Weekly RTTY Test	0145Z-0215Z, Oct 11
+	NCCC Sprint Ladder	0230Z-0300Z, Oct 11
+	K1USN Slow Speed Test	2000Z-2100Z, Oct 11
+	Makrothen RTTY Contest	0000Z-0800Z, Oct 12 and 1600Z-2400Z, Oct 12 and 0800Z-1600Z, Oct 13
+	QRP ARCI Fall QSO Party	0000Z-2359Z, Oct 12
+	Nevada QSO Party	0300Z, Oct 12 to 2100Z, Oct 13
+	Oceania DX Contest, CW	0600Z, Oct 12 to 0600Z, Oct 13
+	SKCC Weekend Sprintathon	1200Z, Oct 12 to 2400Z, Oct 13
+	Scandinavian Activity Contest, SSB	1200Z, Oct 12 to 1200Z, Oct 13
+	Arizona QSO Party	1500Z, Oct 12 to 0500Z, Oct 13
+	Pennsylvania QSO Party	1600Z, Oct 12 to 0400Z, Oct 13 and 1300Z-2200Z, Oct 13
+	South Dakota QSO Party	1800Z, Oct 12 to 1800Z, Oct 13
+	PODXS 070 Club 160m Great Pumpkin Sprint	2000Z, Oct 12 to 2000Z, Oct 13
+	Argentina National 7 MHz Contest	2130Z-2330Z, Oct 12
+	UBA ON Contest, CW	0600Z-0900Z, Oct 13
+	Classic Exchange, Phone	1300Z, Oct 13 to 0700Z, Oct 14 and 1300Z, Oct 15 to 0700Z, Oct 16
+	4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Oct 14
+	K1USN Slow Speed Test	0000Z-0100Z, Oct 14

October 2024 Contest Calendar - Continued on page 58

October 2024 Contest Calendar - Continued from page 57



+	ICWC Medium Speed Test	1300Z-1400Z, Oct 14
+	OK1WC Memorial	1630Z-1729Z, Oct 14
+	ICWC Medium Speed Test	1900Z-2000Z, Oct 14
+	Worldwide Sideband Activity Contest	0100Z-0159Z, Oct 15
+	ICWC Medium Speed Test	0300Z-0400Z, Oct 15
+	Phone Weekly Test	0230Z-0300Z, Oct 16
+	A1Club AWT	1200Z-1300Z, Oct 16
+	CWops Test	1300Z-1400Z, Oct 16
+	Mini-Test 40	1700Z-1759Z, Oct 16
+	VHF-UHF FT8 Activity Contest	1700Z-2100Z, Oct 16
+	Mini-Test 80	1800Z-1859Z, Oct 16
+	CWops Test	1900Z-2000Z, Oct 16
+	RSGB 80m Autumn Series, Data	1900Z-2030Z, Oct 16
+	AGCW Semi-Automatic Key Evening	1900Z-2030Z, Oct 16
+	Walk for the Bacon QRP Contest	0000Z-0100Z, Oct 17 and 0200Z-0300Z, Oct 18
+	CWops Test	0300Z-0400Z, Oct 17
+	CWops Test	0700Z-0800Z, Oct 17
+	NTC QSO Party	1900Z-2000Z, Oct 17
+	NCCC FT4 Sprint	0100Z-0130Z, Oct 18
+	Weekly RTTY Test	0145Z-0215Z, Oct 18
+	NCCC Sprint	0230Z-0300Z, Oct 18
+	K1USN Slow Speed Test	2000Z-2100Z, Oct 18
+	YBDXPI FT8 Contest	0000Z, Oct 19 to 2359Z, Oct 20
+	JARTS WW RTTY Contest	0000Z, Oct 19 to 2400Z, Oct 20
+	ARRL EME Contest	0000Z, Oct 19 to 2359Z, Oct 20
+	10-10 Int. Fall Contest, CW	0001Z, Oct 19 to 2359Z, Oct 20
+	YLRL DX/NA YL Anniversary Contest	1400Z, Oct 19 to 0200Z, Oct 21
+	New York QSO Party	1400Z, Oct 19 to 0200Z, Oct 20
+	Stew Perry Topband Challenge	1500Z, Oct 19 to 1500Z, Oct 20
+	Worked All Germany Contest	1500Z, Oct 19 to 1459Z, Oct 20
+	Feld Hell Sprint	2000Z-2359Z, Oct 19
+	Asia-Pacific Fall Sprint, CW	0000Z-0200Z, Oct 20
+	UBA ON Contest, 2m	0700Z-1000Z, Oct 20
+	Classic Exchange, CW	1300Z, Oct 20 to 0700Z, Oct 21 and 1300Z, Oct 22 to 0700Z, Oct 23
+	Illinois QSO Party	1700Z, Oct 20 to 0100Z, Oct 21
+	Run for the Bacon QRP Contest	2300Z, Oct 20 to 0100Z, Oct 21
+	K1USN Slow Speed Test	0000Z-0100Z, Oct 21
+	ICWC Medium Speed Test	1300Z-1400Z, Oct 21
+	ARRL School Club Roundup	1300Z, Oct 21 to 2359Z, Oct 25
+	OK1WC Memorial	1630Z-1729Z, Oct 21
+	ICWC Medium Speed Test	1900Z-2000Z, Oct 21
+	Worldwide Sideband Activity Contest	0100Z-0159Z, Oct 22
+	ICWC Medium Speed Test	0300Z-0400Z, Oct 22
+	SKCC Sprint	0000Z-0200Z, Oct 23
+	Phone Weekly Test	0230Z-0300Z, Oct 23
+	A1Club AWT	1200Z-1300Z, Oct 23
+	CWops Test	1300Z-1400Z, Oct 23
+	Mini-Test 40	1700Z-1759Z, Oct 23
+	Mini-Test 80	1800Z-1859Z, Oct 23
+	CWops Test	1900Z-2000Z, Oct 23
+	CWops Test	0300Z-0400Z, Oct 24
+	CWops Test	0700Z-0800Z, Oct 24
+	RSGB 80m Autumn Series, SSB	1900Z-2030Z, Oct 24
+	NCCC FT4 Sprint	0100Z-0130Z, Oct 25
+	Weekly RTTY Test	0145Z-0215Z, Oct 25
+	NCCC Sprint	0230Z-0300Z, Oct 25
+	K1USN Slow Speed Test	2000Z-2100Z, Oct 25
+	CQ Worldwide DX Contest, SSB	0000Z, Oct 26 to 2359Z, Oct 27
+	Ham Spirit Contest, CW	0600Z, Oct 26 to 0559Z, Oct 27
+	K1USN Slow Speed Test	0000Z-0100Z, Oct 28
+	QCX Challenge	1300Z-1400Z, Oct 28
+	ICWC Medium Speed Test	1300Z-1400Z, Oct 28
+	OK1WC Memorial	1630Z-1729Z, Oct 28
+	ICWC Medium Speed Test	1900Z-2000Z, Oct 28
+	QCX Challenge	1900Z-2000Z, Oct 28
+	RSGB FT4 Contest	2000Z-2130Z, Oct 28
+	Worldwide Sideband Activity Contest	0100Z-0159Z, Oct 29
+	ICWC Medium Speed Test	0300Z-0400Z, Oct 29
+	QCX Challenge	0300Z-0400Z, Oct 29
+	Phone Weekly Test	0230Z-0300Z, Oct 30
+	A1Club AWT	1200Z-1300Z, Oct 30
+	CWops Test	1300Z-1400Z, Oct 30
+	Mini-Test 40	1700Z-1759Z, Oct 30
+	Mini-Test 80	1800Z-1859Z, Oct 30
+	CWops Test	1900Z-2000Z, Oct 30
+	UKEICC 80m Contest	2000Z-2100Z, Oct 30
+	CWops Test	0300Z-0400Z, Oct 31
+	CWops Test	0700Z-0800Z, Oct 31

2024 Club Committees

Standing Committees	Committee Chairs
Budget	**John O'Connell, K2QA**
Constitution & By-Laws	**Ron Block, NR2B**
Education	**Chris Prioli, AD2CS**
Field Day	**Tony Starr, K3TS**
Hamfest	**Sheldon Parker, K2MEN and Bill Price, NJ2S**
Health, Welfare, & Silent Keys	**Bill Price, NJ2S**
Hospitality	**Jeff Garth, WB2ZBN**
Membership	**Chris Prioli, AD2CS**
Membership Badges	**Chris Prioli, AD2CS**
Nominations	**Jon Pearce, WB2MNF**
Publicity	**Mike Resnick, N2WOQ**
Repeaters	***Open Chair***
W2MMD Clubhouse Site	**Al Arrison, KB2AYU**

Activity Committees	Committee Chairs
Awards & Certificates	**GCARC Board of Directors**
Club Photographer	**Phil Nunzio, WA3RGY**
Club Publications & Historian	**Jeff Garth, WB2ZBN**
Contests	**Tony Starr, K3TS**
GCARC Foxhunts	**Jim Wright, N2GXJ**
GC-ARES Emergency Coordinator	**Bob Keogh, KD2NEC**
Holiday Dinner Party	**Frank Romeo, N3PUU & Kathy Romeo**
License Testing/VEC Liaison	**Gary Reed, N2QEE**
Membership Roster Database	**Jeff Garth, WB2ZBN**
Programs : General Membership Meetings	**Ron Block, NR2B**
Radio Nets	***Open Chair***
Technical (Tech Saturday, TechNets)	**Jon Pearce, WB2MNF**
W2MMD License Trustee	**Darrell Neron, AB2E**
W2MMD Special Event Station	**Mark Gottlieb, KK2L**

GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net e-mail reflector guidelines

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
2. If you have Club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and will send out a general e-mail to all the members.
3. Otherwise, the pictures will have to be sent to the members' addresses.
4. URLs/Hyperlinks are acceptable on the reflector.
5. Do not send any messages with e-mail addresses in the **BCC** (**Blind Carbon Copy**) field. The message will be rejected. Use only the **To:** or **CC:** fields.
6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address. Whenever a message sent to reflector is rejected or *"bounced"* for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message.

The W2MMD Repeaters

2 Meter Repeater
Output : 147.180 MHz
Input : 147.780 MHz
Offset : +600 kHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)
EchoLink : W2MMD-R

70 cm Repeater
Output : 442.100 MHz
Input : 447.100 MHz
Offset : +5 MHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)

The above repeaters are both
located in Pitman, NJ
GPS : 39.728481°, -75.131088°

1.25 Meter Repeater
Output : 224.660 MHz
Input : 223.060 MHz
Offset : -1.6 MHz - PL : 131.8 Hz
Location : Sewell, NJ
GPS : 39.746738°, -75.077094°

SKYWARN™ Net
Sunday @ 1930 : 147.180 MHz Repeater

Gloucester County ARES Net
Sunday @ 2000 : 147.180 MHz Repeater

GCARC TechNet ZOOM Forum
Available Every Monday @ 1930 Hours
Join ZOOM Meeting Link :
https://bit.ly/3K8bWwj

Tuesday AfterNoon 2M Net @ 1200 Hours

Tuesday & Thursday 10 Meter Net @ 1930 Hours
28.465 MHz or 28.475 MHz

Monday & Thursday Night 40M Net
1930 Hours
7.225 MHz (+/- 5 or 10 kHz)

Thursday 2M Net @ 2000 Hours

Meeting Calendar

General Membership Meeting
Wednesday, October 2, 2024
1900 Hours
Pfeiffer Community Center
Simulcast Live on ZOOM
Meeting ID : 943 0211 9674
Passcode : 843147
Join ZOOM Meeting Link :
https://bit.ly/44P4HCU

Board of Directors Meeting
Wednesday, October 16, 2024
1900 Hours
W2MMD Clubhouse

"There's More To Ham Radio Than You Can Possibly Do!"
- K3TS

"The big thing about being in a club and being a "Ham" is to help each other when there is a need "
- W2SEF

*** Badges ***

Need a new or replacement badge
Contact "*The Badge Man*"

Chris Prioli, AD2CS
chris@ad2cs.com

Question Pool Answers : E1D01:A; E1D02:B; E1D03:B; E1D04:A; E1D05:D; E1D06:A; E1D07:A; E1D08:D; E1D09:B; E1D10:B; E1D11:D; E1D12:A

73 Gloucester County Amateur Radio Club - P. O. Box 370 - Pitman, NJ 08071 Ω